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मई दिल्ली, शनिवार, मई 26, 1984 (ज्येष्ठ 5, 1906)

No. 21]

NEW DELHI, SATURDAY, MAY 26, 1984 (JYAIKTHA 5, 1906)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके
[Separate paging is given to this Part in order that it may be filed as a separate compilation]

भाग III—खण्ड 2

[PART III—SECTION 2]

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

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PATENTS AND DESIGNS

Calcutta, the 26th May 1984

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1—77 GI/84

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**ALTERATION OF ADDRESS IN THE REGISTER OF
PATENT AGENTS**

1. The principal place of business of Shri K. S. Mani has been altered to :—

A4, M.I.G. Flats,
3rd Avenue, Ashoknagar,
Madras-600 083.

2. The principal place of business of Mrs. A. V. Nathan has been altered to :—

No. 1007, 10th Main,
1 Block, III Stage,
West of Chord Road,
Bangalore-560 079.

**APPLICATION FOR PATENTS FILED AT THE HEAD
OFFICE 214, ACHARYA JAGADISH BOSE ROAD,
CALCUTTA-700 017**

The dates shown in crescent brackets are the dates claimed under Section 135, of the Act.

19th April, 1984

252|Cal|84. Sudhir Raghbir and Ashok Sonda. Electro Mechanical Vibrator.

253|Cal|84. Combustion Engineering, Inc. Elimination of Jet Pump cavitation in controlled circulation boilers.

254|Cal|84. Polska Akademia Nauk—Centrum Badan Molekularnych Makromolekularnych. A method of producing bromides of α -dialkoxythiophosphoryl thio-glycolic acid.

255|Cal|84. Rocco Palmara, Giovanni Palmara and Bruno Palmara. Group of elements for the realization of connecting and tightening joints of two or more sections of any shape, variously reciprocally oriented and orientable.

256|Cal|84. Kabushiki Kaisha Meidensha. Metal Enclosed Switch-gear.

257|Cal|84. Franz Plasser Bahnbaumaschinen-Industriegesellschaft m.b.H. A travelling arrangement for correcting the level and cross-level of a track.

21st April, 1984

258|Cal|84. Degussa Aktiengesellschaft. Natural Oxidic organic fillers modified at the surface. A process for their production.

259|Cal|84. Owens-Corning Fiberglas Corporation. Electric Glass melting furnace.

260|Cal|84. Union Carbide India Limited. A process for preparation of monoethers of catechol.

261|Cal|84. Union Carbide India Limited. A process for the preparation of Insecticidally active carbamate.

262|Cal|84. Westinghouse Electric Corporation. Self protected Thyristor and method of making.

23rd April, 1984

263|Cal|84. Isover Saint-Bobain. Process for wrapping a rotating bale of a luminated mineral fibre web in a protective covering for packaging purposes by applying the protective layer while the web is being rolled up, and an apparatus for carrying out the process.

264|Cal|84. Jbl Incorporated. Defined — Coverage Loudspeaker Horn.

265|Cal|84. Rheinmetall GmbH und Etat Francais. Subcaliber Projectiles.

24th April, 1984

266|Cal|84. Rabindra Nath Das. Speed reduction gearing system employing an universe solar system over R.W.D. method.

267|Cal|84. Indian Jute Industries Research Association Improved spindle assembly for winding yarn in jute spinning (flyer) machines.

268|Cal|84. Rabindra Kumar DebGupta. A power Transmission Device for Vehicles.

269|Cal|84. Combustion Engineering, Inc. Process for removal of troublesome mineral matter from pulverized Coal.

270|Cal|84. Shin Sumino. Rear Dump Truck with Sieving device.

25th April, 1984

271|Cal|84. Societe Anonyme D'etudes, DE Recherches ET DE productions D'Agents Chimiques—E. R. P. A. C. Improvements to fillings for biological filters.

272|Cal|84. Nauchno-Issledovatel'sky Institut Khimik toy Diva Polimernykh Materialov. Process for producing Phthalimides of Alkali metals.

**APPLICATION FOR PATENT FILED AT THE PATENT
OFFICE BRANCH MUNICIPAL MARKET BUILDING,
III RD FLOOR, KAROL BAGH, NEW DELHI-5**

26th March, 1984

261|Del|84. NL Industries, INC., "Process for producing titanium dioxide". [Divisional date November 27, 1980].

262|Del|84. Saft. "A method of manufacturing an electrode for an electrochemical cell, and an electrode manufactured by the method".

263|Del|84. The Babcock & Wilcox Company. "Automated catalyst regeneration in a reactor".

264|Del|84. Kennametal, Inc., "Roll for hot forming steel rod".

265|Del|84. SodaStream Limited, "Liquid carbonating apparatus". (April 8, 1983, September 2, 1983 & November 21, 1983).

27th March, 1984

266|Del|84. Bharat Heavy Electricals Limited, "Erosion resistant thermocouple housings".

267|Del|84. Bharat Heavy Electricals Limited, "Improved spark gap electrode".

268|Del|84. Dr. Maliakal Paul George, "A simple automatically isolating relay switch for electrical appliances during over voltage and under voltage".

269|Del|84. Chemie Linz Aktiengesellschaft, "Process for the preparation of an isocyanic acid/ammonia gas mixture having a low cyanuric acid content, and an apparatus for carrying out the process".

270|Del|84. Gestra Kondensatableiter GMBH & CO. "Steam trap having bimetallic snap elements".

271|Del|84. Petrole Service, "Apparatus indicating the position of a mobile object, especially the level of a liquid".

272|Del|84. Comineo Ltd., "Cell top insulator". (April 5, 1983).

28th March, 1984

273|Del|84. Warner-Lambert Company. "Gum composition with plural time releasing flavors and method of preparation".

274|Del|84. Warner-Lambert Company. "Chewing gum composition having enhanced flavor sweetness".

275|Del|84. Foster Wheeler Limited. "A process for producing a gas stream for the synthesis of ammonia". [Divisional date July 29, 1980].

276|Del|84. Fuller Company. "Plate for oscillating-type transporter".

28th March, 1984

277|Del|84. Exxon Research and Engineering company. "Improved slack wax de-oiling process".

278|Del|84. Warner-Lambert Company. "Chewing gum with improved stability".

29th March, 1984

279|Del|84. Mobil Solar Energy Corporation. "A method of making a photovoltaic semiconductor solar cell". [Divisional date October 21, 1981].

280|Del|84. Albright & Wilson Limited. "Ore floatation". (March 29, 1983 & February 28, 1984).

30th March, 1984

281|Del|84. Gurdeep Singh Johar & Gulab Dutt Tiwari. "A process for the instant separation of muskmelon seeds from its internal mucilaginous ball".

282|Del|84. Energy Conversion Devices, INC. "Apparatus for and method of continuously depositing a highly conductive, highly transmissive film".

31st March, 1984

283|Del|84. Lakshman Prasad. "Ink dating machine".

284|Del|84. Swami Sanatan Shree. "Sanatan Urja-84 (SU-84)".

285|Del|84. The Lubrizol corporation. "Polycarboxylic acid|boric acid|amine salts and aqueous systems containing same".

286|Del|84. Diab-Barracuda AB. "Radar camouflage material".

287|Del|84. The Lubrizol Corporation. "Phosphorus containing metal salt|olefin compositions and reaction products of same with active sulfur".

APPLICATION FOR PATENTS FILED IN THE PATENT OFFICE BOMBAY AT TODI ESTATES, THIRD FLOOR, LOWER PAREL (W), BOMBAY-13

16th March, 1984

64|Bom|84. Hindustan Lever Limited. Powder Detergent Compositions.

65|Bom|84. Eagle Flask Private Ltd. Vacuum or Insulated FLASKS for making Beverages.

66|Bom|84. Jyoti Limited. Improvements in or relating to solar still, solar ponds or solar Tubular Heat Absorbers.

67|Bom|84. Ramechandra Govind Patil, Vandana Ramechandra Patil, & Varsha Ramechandra Patil. A tiny tiller-cum-leveller.

68|Bom|84. Chandrakant Yadav Rao Gavhane. A process for manufacturing half round open cement pipes for canals and the like irrigation applications in agricultural industries.

20th March, 1984

69|Bom|84. The Secretary of Textiles Committee constituted by the Textiles Committee Act 1963 and the Director of Cotton Technological Research Laboratory. A process for imparting Flame Retardant Finish to cellulosic materials.

70|Bom|84. Shivaprasad H. Thaker, C-BAK.

21st March, 1984

71|Bom|84. Plastart. Stand off insulators for T.V. Antenna Cables.

72|Bom|84. Plastart. Improved Television Signal Booster.

73|Bom|84. Sadanand Achanna Shelty. Device to cut irregular shapes in varying sections.

74|Bom|84. Gabriel India Limited. An Engine Bearing.

75|Bom|84. Eagle Flask Pvt. Ltd. Leak Proof Vacuum Flask.

23rd March, 1984

76|Bom|84. Dr. Shantilal Keshavlal Sanghani. An improvement in the conventional bicycle for an auxiliary driver.

77|Bom|84. Dr. Harsha Vardhan Tiwari & Dr. Gangadhar Sao. An apparatus for thermal expansion measurement of thin films.

27th March, 1984

78|Bom|84. Dholatja Kursan Ramjibhi. A water lifting pump operated by steam injector.

28th March, 1984

79|Bom|84. Tendolkar Surendra Dattatraya. Rotary Internal Combusion Engine.

30th March, 1984

80|Bom|84. Sudhir Digambar Apte. The improved plant pot.

81|Bom|84. Avrns Engineering Pvt. Ltd. Self Adjusting Spanner.

82|Bom|84. Hurdale Dayanand Sidalingappa. Tractor Steel Wheel.

83|Bom|84. Hurdale Dayanand Sidalingappa Umbadga Kishiraj Automatic Seed drill bullock drawn as well as tractor drawn.

30th March, 1984

84|Bom|84. Hindustan Lever Limited. Treatment.

85|Bom|84. Ramawatar Satogi. Nipple.

86|Bom|84. Power Controls & Electronics. A novel Automatic Combinational Capacitor Switching Control panel.

2nd April, 1984

87|Bom|84. Flask Private Ltd. Eagle. Improved sealing and pouring means for vacuum|insulated flasks.

88|Bom|84. Eagle Flask Pvt. Ltd. Heated insulated Containers.

89|Bom|84. Eagle Flask Pvt. Ltd. Non-sweating drinking vessel.

90|Bom|84. Suresh Vishwanath Bhave. Total support vehicle for use as a motor home operation theatre, ambulance, Safari and Bird-watching vehicle.

APPLICATIONS FOR PATENTS FILED AT THE PATENT
OFFICE BRANCH, 61, WALLAJAH ROAD,
MADRAS-600 002

2nd April, 1984

227[Mas]84. U. V. Nayak. An attachment device for attachment to a substantially vertical projection such as a pole or stem".

228[Mas]84. S. K. Garg. Folding Hi-Gain Video Projection Screen.

229[Mas]84. The Dow Chemical Company. Unitary central cell element for filter press electrolysis cell structure.

230[Mas]84. Societe Des Produits Nestle S.A. Apparatus for treating a food stuff in a container. (Divisional to Application No. 1206[Cal]81).

3rd April, 1984

231[Mas]84. Izumi Masahiko. Method of cleaning object.

232[Mas]84. SKF Steel Engineering AB. Method and means for feeding refuse into a shaft furnace.

4th April, 1984

233[Mas]84. SKF Steel Engineering Aktiebolag. Transferred electric arc.

234[Mas]84. Rao V. Ancara. Calendar assembly.

235[Mas]84. Lucas Industries Public Limited Company. Dwell control for an I.C. engine spare ignition system. (April 5, 1983)

5th April, 1984

236[Mas]84. B. S. Murty. A surgical instrument.

237[Mas]84. I.S.C. Smelting Limited. Dispersion of liquids in gases. (April 5, 1983).

238[Mas]84. Institut Francais Du Petrole. A method and a device for carrying out measurements and/or operations in a well.

239[Mas]84. Shell Internationale Research Maatschappij B.V. Apparatus for treating mixtures of liquid and gas. (April 8, 1983).

240[Mas]84. Big-inch Marine Systems, Inc. Connection of an sealing of tubular members.

6th April, 1984

241[Mas]84. H. G. Rao. Improvements relating to firewood burning stoves.

242[Mas]84. Societe D'Etudes Scientifiques ET Industrielles De L'Ile-De-France. Novel galenic forms of sulpiride which can be used orally.

243[Mas]84. Pilao S/A. Maquinas E Equipamentos. Improvements in refiner for wood pulp or the like.

244[Mas]84. British Steel Corporation. Improvements in or relating to electric arc furnaces. (April 7, 1983).

7th April, 1984

245[Mas]84. Olin Sylvester Elliott. Carding apparatus and method. (December 19, 1983).

COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications con-

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CLASS : 32F; 55F; & 4; 60X₂ J.

153037.

Int. Cl. C 07 d 27|00, 41|00.

A PROCESS FOR THE PREPARATION OF NOVEL SUBSTITUTED HETEROCYCLIC PHENOSYAMINES.

Applicants : SOCIETE D'ETUDES SCIENTIFIQUES ET INDUSTRIELLES DE L'ILE-DE-FRANCE, OF 46, BOULEVARD DE LATOUR-MAUBOURG, 75-PARIS 7^e, FRANCE.

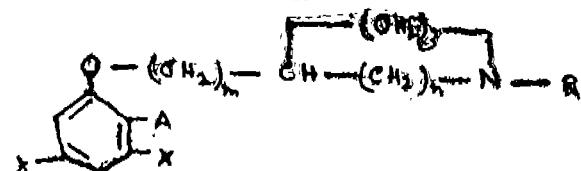
Inventors : 1. MICHEL THOMINET, 2. JACQUELINE FRANCESCHINI.

Application No. 779[Cal]80 filed July 5, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A process for preparing novel substituted heterocyclic phenoxyamines of general formula I as shown in the accompanying drawings



Formula No. I

Wherein M=2

N=O

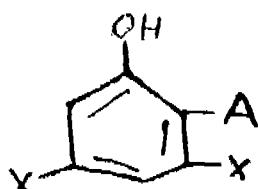
and in which
A is — hydrogen,

- alkoxy with 1-4 C-atoms in the alkyl group, such as methoxy, ethoxy, linear or ramified propoxy, buutoxy,
- alkenyloxy with 2-6 C-atoms in the alkenyl group, such as vinyloxy, propanoylexy (allyl), butenyoxy, pentenyoxy, hexenyoxy,

X=— halogen, such as F, Cl, Br.

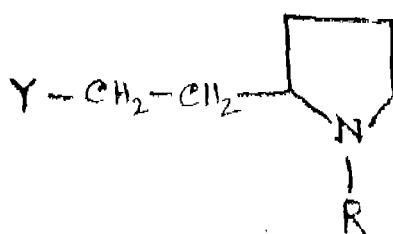
- R=— H, lower alkyl with 1-6 C atoms such as methyl, ethyl, linear or ramified propyl, butyl, pentyl or hexyl
- cycloalkyl with 3 or more than 3 C-atoms such as cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, methylcyclobutyl, methylcyclopentyl, methylcyclohexyl, ethylcyclohexyl,
- alkenyl with 2-6 C-atoms such as vinyl, propenyl (2 allyl), butenyl, pentenyl, hexenyl
- cycloalkenyl especially with more than 3 C-atoms such as cyclobutenyl, cyclopentenyl, cyclohexenyl, methylcyclobutenyl, methylcyclopentenyl, methylcyclohexenyl, ethylcyclohexenyl, cycloalkyl or cycloalkenyl lower alkyl, whereby the cycloalkyl, cycloalkenyl and lower alkyl groups are defined as above, such as cyclopropylmethyl, cyclopropylethyl, cyclobutylmethyl, cyclobutylethyl, cyclopentylmethyl, cyclopentylethyl, cyclopentenylmethyl, cyclopentenylethyl, cyclohexylmethyl, cyclohexylethyl, cyclohexenylmethyl, cyclohexenylethyl,

which comprises treating a 3, 5-dihalophenol of formula V as shown in the drawings.



Formula (V)

wherein A and X are as defined above, in the form of alkaline phenolate, with an amine of formula VI as shown in the drawings,



Formula (VI)

wherein Y is an anionic residue which is capable of being eliminated for example halogen atom and R is as defined above in the presence of an inert organic solvent such as toluene, styrene at the reflux temperature of the reaction mixture, if desired, producing the optically active forms of the compounds of formula I by chemical combination with an optically active acid.

Compl. Specn. 44 pages.

Drgs. 1 Sheet.

CLASS : 55F; 60X₂ ..

153038.

Int. Cl. A 61 1 23|00; C 12 d 13|00.

PROCESS FOR PREPARING A DERMATIC MEDICAMENT,

Applicants : SHINJI KASHIWAYAMA OF NO. 558 IWASAKI, KAMITONDACHO, NISHIMURO-GUN, WAKAYAMA-KEN JAPAN.

Inventors : KIYOO TAKAMURA.

Application No. 994|Cal|80 filed August 30, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2. Claims

A process for obtaining a product used as the active agent for being incorporated in a cosmetic composition or dermatic medicament, characterized in that it comprises culturing the Trichosporon Kashiyama (FRI 4821) strain in or on a culture medium at a pH between 4 and 6 and a temperature between 20 and 30°C; separating the culture medium from the cells and recovering a sterile liquid medium which can optionally be concentrated and dried.

Compl. Specn. 23 pages.

Drgs. 2 Sheets.

CLASS : 20B.

153039.

Int. Cl. G 09 b 27|00.

GLOBE DEVICE,

Applicants and Inventors : DR. BIBHUTI BHUSHAN GHOSH, PH.D., EDITOR, NAGALAND DISTRICT GAZETTEERS, KOHIMA, NAGALAND.

Application No. 1144|Cal|80 filed October 8, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3. Claims

A globe device comprising eight equiangular sections, one end of said sections being vertically mounted on a bottom plate and held together at a point, the other end of each of said sections being spring loaded and detachably clamped at a point above which a knob being located so that said other end of each section can be separately removed from said globe device; lines longitude and latitude being drawn on the inner surface of each of said sections and on the outer surface of said globe.

Compl. Specn. 5 Pages.

Drgs. 1 Sheet.

CLASS : 40F; 88D.

153040.

Int. Cl. B 01 d 49|00.

COAL GAS TREATMENT APPARATUS,

Applicants : M. A. N. MASCHINENFABRIK AUGSBURG-NURNBERG AKTIENGESELLSCHAFT, POSTFACH 11 02 40, 4200 OBERHAUSEN 11, FEDERAL REPUBLIC OF GERMANY.

Inventor : 1. FROHMUT VOLKHARDT.

Application No. 1216|Cal|80 filed October 27, 1980.

Convention dated 24th July, 1980 (24191|80) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11. Claims

Coal gas treatment apparatus comprising a cylinder enclosing a pressurised gas treatment space for treatment therein of

gas supplied from a reactor, a cylindrical heat exchange unit arranged adjacent the internal wall surface of the cylinder and comprising a plurality of adjacently disposed heat exchange tubes for conducting a heat exchange medium, a plurality of chambers defined by heat exchange tubes and extending radially inwardly of the cylindrical heat exchange unit and over substantially the entire length thereof, and means for conducting in the chambers a cleaning fluid at a higher pressure than that of the gas treatment space and directing the fluid out of the chambers substantially tangentially against adjacent portions of the tubes of the heat exchange unit.

Compl. Specn. 9 pages.

Drgs. 2 Sheets.

CLASS : 107H.

153041.

Int. Cl. F 02 b 19|10.

IMPROVEMENTS TO SUPERCHARGED INTERNAL COMBUSTION ENGINES, IN PARTICULAR DIESEL ENGINES.

Applicants : FIAT FRANCAIS, OF 14 RUE SAINT DOMINIQUE, 75 997 PARIS ARMEES, FRANCE.

Inventors : 1. JEAN MELCHIOR, 2. THIERRY ANDRE.

Application No. 1340|Cal|80 filed December 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims

A supercharged internal combustion engine, more particularly a supercharged Diesel engine, comprising a compressor supplying fresh air in parallel to the engine and to a bypass having an auxiliary combustion chamber and a turbine which receives the engine exhaust gases and the gases from the auxiliary combustion chamber and mechanically drives the compressor, the bypass being divided into two main branches, the first of which ends in a dilution region or "secondary region" downstream of the up-stream part or "primary region" of the auxiliary combustion chamber and has first throttle means having a variable flow cross-section, whereas the second branch starts from a place on the first branch upstream of the first throttle means and opens into the primary region via second means for throttling the flow cross-section, the second throttle means comprising couples passages having a variable common free cross-section and formed respectively in an internal and an external cylindrical means which are movable relative to one another, one of them at least partly bounding the primary region whereas the other at least partly bounds a cavity directly connected to the compressor outlet at least one fuel injector opening into the primary region in the immediate neighbourhood of the aforementioned coupled passages, means being provided for correspondingly varying the flow rate of the fuel injector or injectors and also varying the flow rate of air entering the primary region via the common free section of the couples passages, by moving the inner cylindrical means relative to the outer means, the engine being characterised in that :

the second throttle means also have constant-section passages in parallel with the aforementioned coupled passages; the internal and external cylindrical means have radial dimensions such that, allowing for the thermal expansion coefficients of the material of which they are formed and their upper and lower operating temperatures, the radial clearance between them is always sufficient to prevent any lateral contact between the cylindrical means irrespective of the operating conditions of the auxiliary combustion chamber; and

third throttle means having a variable flow section are mounted upstream or at the coupled passages of the second throttle means, depending on the direction in which the air flows in the second branch of the bypass, and are actuated so that :

(a) their minimum flow section is zero and

(b) irrespective of the amounts to which the second and third throttle means are instantaneously opened, the flow section of the third throttle means is always either zero or

much greater than the free section of the coupled passages of the second throttle means.

Compl. Specn. 22 pages.

Drgs. 6 Sheets.

CLASS : 72B.

153042.

Int. Cl. C 06 b 1|00, 21|00.

IMPROVED WATER-IN-OIL EMULSION EXPLOSIVES AND A METHOD FOR THE PREPARATION OF THE SAME.

Applicants : INDIAN EXPLOSIVES LIMITED, OF 34 CHOWRINGHEE, CALCUTTA-700 071, WEST BENGAL, INDIA.

Inventors : 1. DHIRENDRA NATH BHATTACHARYA,
2. SRINIVASACHARI SESHAN,
3. JOHN STEWART CAMPBELL,
4. SOUMENDRA NATH SEN.

Application No. 31|Cal|81 filed January 12, 1981.

Complete Specification left 10th April, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An improved water-in-oil emulsion explosive composition which comprises (i) 5 to 30% of water, (ii) 3 to 15% of a carbonaceous fuel, (iii) 20 to 80% of known inorganic oxidiser salts such as ammonium nitrate, calcium nitrate, sodium nitrate or potassium nitrate, either singly or in combination of two or more of them, (iv) 0.02 to 0.5% of a known gassing agent such as sodium nitrate or a nitroso compound including N, N'--dinitroso pentamethylene tetramine, (v) 0.02 to 2% of a stabiliser selected from the group viz. organo-sulphur compounds such as thiocarbamides, mercaptans and their derivatives organic compounds containing quaternary nitrogen such as alkyl and/or aryl quaternary ammonium salts and/or alkyl/aryl pyridinium salts, phenolic compounds and their derivatives such as styrenated phenols, dihydroxybenzenes such as hydroquinone, quinones such as benzoquinone, naphthaquinone and anthra-quinone, either singly or in combination, (vi) 0.05 to 1% of a water and/or fuel soluble thickening agent such as a natural or synthetic gum like gum gum acacia, gum arabic, gum tragacanth, karya gum or guar gum, a synthetic polymeric hydrocolloid such as a polyacrylamide either singly or in combination, (vii) 0.5 to 4% of one or more of known emulsifiers such as herein described, and optionally (viii) known flame quenching coolants and/or metallic/particulate fuels.

Prov. Specn. 12 Pages.

Compl. Specn. 14 pages.

Drgs. Nil.

CLASS : 108C.

153043.

Int. Cl. B22d 37|00.

RECLAMING SLIDING GATE VALVE COMPONENTS.

Applicants : FIOGATES LIMITED, OF SANDIRON HOUSE, BFAUCHIEF, SHEFFIELD, S7 2RA, ENGLAND.

Inventor : JOHN KENDALL GREGORY.

Application No. 182|Cal|81 filed February 18, 1981.

Convention date 25th April, 1980 (13783|80) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A method of recovering the metal reinforcing can of a canned sliding gate valve plate, in which a refractory item is cemented, comprising raising the canned plate to an elevated temperature to expand the can relative to the cement and refractory item to weaken the cement bond significantly, placing the canned plate on a support which engages the can but not the refractory item, and applying a thrust to the refractory item while the canned plate is still hot so as to force the refractory item from the can.

Compl. Specn. 9 pages.

Drgs. 1 Sheet.

CLASS : 187C.

153044.

Int. Cl. G 08 b 11|00; G 08 c 9|00.

A MODULAR TELECOMMUNICATION SYSTEM.

Applicants : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, FEDERAL REPUBLIC OF GERMANY.

Inventors : 1. DIPLO. ING.-MANFRED GANZ, 2. ENRIQUE GUELDNER.

Application No. 742|Cal|81 filed on July 4, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

17 Claims

A modular telecommunication system for exchanging data between any pair of a multiplicity of data terminals, said telecommunication system including a plurality of switching blocks and a plurality of interconnecting lines for interconnecting said switching blocks adapted to be connected to a respective group of data terminals, and having :

- (a) Line terminators adapted to be connected to a respective one of said data terminals;
- (b) a communications controller for controlling local data exchange between pairs of said line terminators across real channels;
- (c) a central processing system coupled to said communications controller; and
- (d) an interface unit coupling said switching block to a respective one of said interconnecting lines for providing remote data exchange between data terminals associated with different switching blocks, the improvement comprising :

a virtual channel controller arranged in each switching block for controlling the remote data exchange between a local data terminal and a data terminal associated with a remote switching block; and being connected to said central processing unit, said communications controller and said interface unit thereby switching information from one of the devices connected thereto to the others in such a manner that said virtual channel controller, while being transparent for local data traffic across real channels, establishes data links by means of virtual channels for data exchange of locally associated data terminals and data terminals associated with a respective one of said remote switching blocks across said plurality of interconnecting lines.

Compl. Specn. 96 pages.

Drgs. 14 Sheets.

CLASS : 32F9(1).

153045.

Int. Cl. C07d 57|00.

"A PROCESS FOR PREPARING QUINAZOLINE DERIVATIVES".

Applicant : PFIZER CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE REPUBLIC OF PANAMA, OF CALLE 15^a, AVENIDA SANTA ISABEL, COLON, REPUBLIC OF PANAMA.

Inventors : SIMON FRASER CAMPBELL, JOHN CHRISTOPHER DANILEWICZ, COLIN WILLIAM GREENGRASS & MISS RHONA PLEWS.

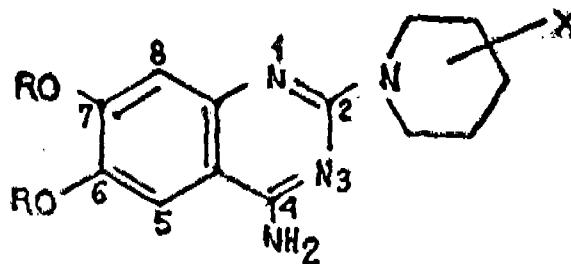
Application for patent No. 337.Del|79 filed on 16th May, 1979.

Convention date 18th May, 1978|20351|78 (U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New-Delhi-5.

2 Claims

A process for preparing compounds of the formula I :



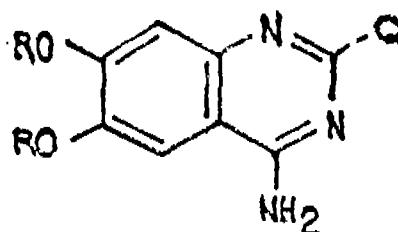
Formula I

wherein R is lower alkyl; and X, which is attached to the 3-or 4-position of the piperidino group, is a group of the formula :

Phenyl

$-\text{CH}_2\text{nCONR}^1\text{R}^2$, $-\text{O}(\text{CH}_2\text{nCONR}^1\text{R}^2$ or $-\text{OCHCONR}^1\text{R}^2$,

wherein n is 0, 1 or 2; and either R¹ is hydrogen or lower alkyl, and R² is lower alkyl; phenyl (as hereinbefore defined); C₃-C₇ cycloalkyl; or lower alkyl substituted by phenyl (as hereinbefore defined); C₃-C₇ cycloalkyl, halogen, trifluoromethyl, hydroxy, lower alkoxy, lower alkenyl, lower alkynyl, lower alkoxy carbonyl, phenoxy (as hereinbefore defined) or a group of the formula : $-\text{NR}^1\text{R}^2$ wherein R¹ and R² each independently represent hydrogen, lower alkyl, lower alkanoyl or lower alkylsulfonyl; with the proviso that any O, N or halogen atom in R² is separated by at least 2 carbon atoms from the nitrogen atom to which R² is attached; or R¹ and R² taken together with the nitrogen atom to which they are attached form a morpholino group optionally substituted by one or two lower alkyl groups, or a 1, 2, 3, 4-tetrahydroisoquinolyl group optionally substituted on the benzene ring portion by one or two lower alkoxy groups; and the pharmaceutically acceptable acid addition salts thereof; which comprises reacting a quinazoline of the formula II :



Formula II

wherein R is as defined above, and Q is a facile leaving group, with a piperidine of the formula III :



Formula III

wherein X is as defined above; followed by, optionally, conversion of the product of the formula (I) into a pharmaceutically acceptable acid addition salt thereof by reaction with a non-toxic acid.

Compl. Specn. 33 pages.

Drgs. 4 Sheets.

CLASS : 196 A. 36 A.

153046.

Int. Cl. F24f 7/06, 13/00, F04d 29/00, 33/00.

"TABLE OR PEDESTAL FAN".

Applicant : DR. JAGDEVA PRASAD GUPTA, D.L.W. ROAD, KAKARMATTA, VARANASI.

Inventor : JAGDEVA PRASAD GUPTA.

Application for patent No. 542/DEL/79 filed on 27th July, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

2 Claims

A table or pedestal fan comprising an axle shaft connected to a motor, rear end of the motor shaft being connected to a first toothed wheel in a displaceable meshing arrangement with a second toothed wheel, a semicircular steel plate detachably attached with a round plate, the other end of the steel plate being engageable in a hole in the first toothed wheel to provide a lever arrangement for operating first toothed wheel in different position making the fan to move in stationary, oscillating and in a all round position.

Compl. Specn. 14 pages.

Drg. 1 Sheet.

CLASS : 32F₉(1).

153047.

Int. Cl. C07c 69/00.

"A PROCESS FOR MAKING CUMYLPHENOL DERIVATIVES".

Applicant : KENRICH PETROCHEMICALS, INC., A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, LOCATED AT THE FOOT OF EAST 22ND STREET, BAYONNE, NEW JERSEY 07002, UNITED STATES OF AMERICA.

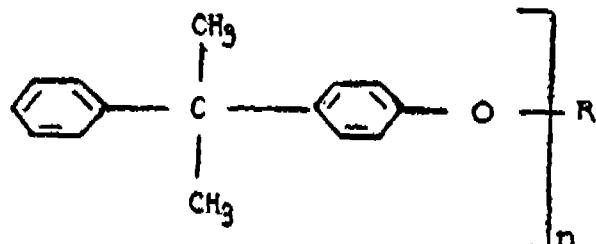
Inventors : SALVATORE JOSEPH MONTE & GERALD SUGERMAN.

Application for patent No. 584/DEL/79 filed on 13th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims.

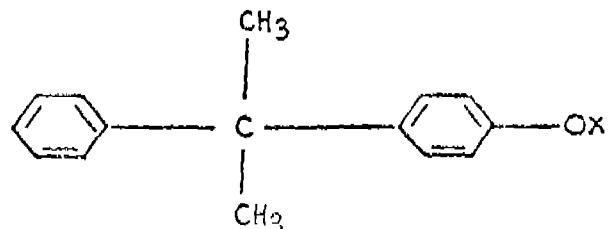
A process for the preparation of cumylphenol derivatives of the general formula I :



wherein R is an acyl group, an alkenyl group having from 3 to 12 carbon atoms, an aralkyl group having from 7 to 12 carbon atoms or

O

II
C-R' in which R' is an alkenyl having 2 to 12 carbon atoms and n is a number from 1 to 3 which comprises reacting a compound having the general formula II :



Formula II

wherein X is a hydrogen or an acyl group with a compound of the general formula R(CO)_a(Y)_b, wherein, when n is 1, R is an alkenyl group having from 2 to 12 carbon atoms, b equals 1, and Y is a hydroxyl, a halogen or an ester-forming group when a is O and R is an alkenyl group having from 3 to 12 carbon atoms or an aralkyl group having from 7 to 12 carbon atoms, b equals 1 and Y is a halogen or a hydroxy group; when a is O and R is boron, b equals 3 and Y is an ester-forming group, and when a is O and R is a polyfunctional hydrocarbyl group having from 4 to 8 carbon atoms, Y is an ester-forming group and b is an integer equal to the functionality of the R group.

Compl. Specn. 14 pages.

Drg. 1 Sheet.

CLASS : 139 F & 6B.

153048

Int. Cl. : C01b 13/00.

"A PROCESS AND AN APPARATUS FOR PRODUCING LOW-PURITY OXYGEN."

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK 10017, UNITED STATES OF AMERICA.

Inventors : WALTER JOSEPH OLSZEWSKI, JOHN HAROLD ZIEMER.

Application for Patent No. 596/DEL/79 filed on 20th August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

22 Claims

A process for producing low-purity oxygen by low-temperature rectification of air comprising :

(a) compressing feed air to at least 85 psia,

(b) dividing the compressed air into a first part and second part,

(c) mixing said first part as oxidant for a combustion stream with fuel,

(d) igniting said combustion stream in a combustion zone at ignition pressure of at least 80 psia to heat said combustion stream,

(e) expanding the heated combustion stream in a power turbine to lower pressure with the production of external work.

(f) recovering at least part of said external work as energy for said compressing of feed air,

(g) cooling said second part of compressed air,

(h) introducing the cooled air to a higher pressure rectification stage having its upper end in heat exchange relation with the lower end of a lower pressure rectification stage,

id cooled air into oxygen-enriched and in said higher pressure rectification stage,

(j) transferring at least part of said liquids from step (i) to said lower pressure rectification stage for separation into low purity oxygen and nitrogen-rich gases.

(k) operating said lower-pressure rectification stage at pressure at least 20 psi lower than the step (d) ignition pressure,

(l) discharging a low-purity oxygen product stream and at least one nitrogen-rich gas stream from said lower pressure rectification stage,

(m) compressing at least part of the nitrogen-rich gas discharged in step (l) to pressure at least equal to the step (d) ignition pressure, and

(n) flowing the compressed nitrogen-rich stream into the combustion stream, upstream of said power turbine.

Compl. Specn. 33 pages. Drgs 4 Sheets.

CLASS : 19B₂ & C & 129K. 153049

Int. Cl. : F 16b 35/00.

"THREADED JOINTS".

Applicant : UNION CARBIDE CORPORATION, MANUFACTURERS, A CORPORATION ORGANISED AND EXISTING UNDER THE LAWS OF THE STATE OF NEW YORK, UNITED STATES OF AMERICA, LOCATED AT 270 PARK AVENUE, NEW YORK, STATE OF NEW YORK, 10017, UNITED STATES OF AMERICA.

Inventor : JOHN FRANKLIN PELTON.

Application for Patent No. 601/DEL/79 filed on 23rd August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

9 Claims

A threaded joint adapted to be loaded in an axial direction, said connection comprising two pieces (i) having coincidental axes and (ii) having different coefficients of thermal linear expansion wherein one piece is a threaded male piece and the other piece is a threaded female piece, characterised in that the threads of at least one of the pieces is provided with a taper which at ambient temperature is such that the change in radial clearance per unit of length between the opposing threads of each piece is equal to the expression $A\Delta T \tan \theta$ wherein :

A =the difference in the coefficients of thermal linear expansion of the materials of which each piece is comprised, in the axial direction;

ΔT =the operating temperature of the connection minus ambient temperature; and

θ =the acute angle formed by the loaded face of the thread of either piece with the axes.

said radial clearance increasing in the direction of the loading of the piece having the higher coefficient of thermal linear expansion.

Compl. Specn. 16 pages. Drgs. 3 Sheets.
2-77GI/84

CLASS : 32F₂(b).

153050

Int. Cl. : C07d 57/00.

"PROCESS FOR PREPARING 9-(HYDROXY ALKYL) PURINES."

Applicant : NEWPORT PHARMACEUTICALS INTERNATIONAL, INC., A CORPORATION OF CALIFORNIA, U.S.A., OF 1590 MONROVIA BOULEVARD, NEWPORT BEACH, CALIFORNIA, U.S.A., AND SLOAN-KETTERING INSTITUTE FOR CANCER RESEARCH, A CORPORATION OF THE STATE OF NEW YORK, U.S.A., OF 1275 YORK AVENUE, NEW YORK, U.S.A.

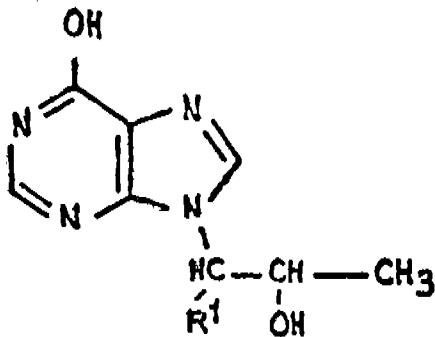
Inventor : ALI-REDO GINER-SOROLLA.

Application for Patent No. 617/DEL/79 filed on 3st August, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

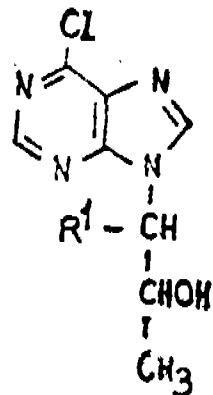
7 Claims

A process of preparing a compound of the formula I :



Formula I

wherein R¹ is alkyl of 1 to 8 carbon atoms comprising hydrolyzing a compound of the formula IV :



Formula IV

wherein R¹ is as defined above under alkaline conditions.

Compl. Specn. 28 pages. Drgs. 8 Sheets.

CLASS : 107 K.

153051

Int. Cl. : F01 33/00.

"IMPROVED ROTARY VALVE MEANS FOR INTERNAL COMBUSTION ENGINES."

Applicant : PHILLIP RODNEY HOPKINS, OF 655 EAST 34 STREET, HIALEAH, FLORIDA 33013, UNITED STATES OF AMERICA, A U.S. CITIZEN.

Inventor : PHILLIP RODNEY HOPKINS.

Application for Patent No. 620/Del/79 filed on 3rd September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972) Patent Office Branch, New Delhi-5.

6 Claims

Improved rotary valve means for an internal combustion engine of the kind having an engine block defining at least one cylinder and an engine head spanning said cylinder, a piston within said cylinder said piston being reciprocable with respect to said head, said rotary valve means comprising at least one rotary shaft journaled in said engine head with a portion of said shaft spanning a portion of said cylinder above the piston, said shaft having a diametrical passage-way with a cross-sectional area which, in the direction of the centerline of the shaft, is at least as great as the radius of said cylinder and circumferentially is a distance substantially equal to one-sixteenth of the circumference of said shaft, said shaft being rotatable within an aperture or tunnel formed in said engine head located adjacent the engine cylinder, and seal structure extending along said rotary shaft for sealing that space located between wall surfaces of the tunnel within which the shaft rotates and outer surfaces of the rotary shaft, the seal structure comprising at least four elongated seal members carried by said rotary shaft each said seal member having a portion extending into said space to effect sealing against opposing surfaces, characterized in that the location of the transverse axis of each said seal member is along a line coincident with a non-diametric chord of an axial cross-section of said rotary shaft so that said shaft is provided with at least four longitudinally extending, circumferentially spaced recesses extending into said shaft and opening into said space, with the transverse axis of each of said recesses lying along a line coincident with a non-diametric chord of the cross-section of said rotary shaft, and in that each recess has an elongated seal member disposed therein with the portion of the seal member which extends into said space having a surface face which engages the wall surface of the aperture within which the shaft rotates to effect sealing of said space, and the line of each of said seal members coincident with the non-diametric chord of an axial cross-section of said rotary shaft intersects the circumferentially spaced recess of a respective adjoining seal member.

Compl. specn. 11 pages. Drg. 2 sheets.

CLASS : 32A.

153052.

Int. Cl. : C09b 62/00.

"PROCESS FOR THE MANUFACTURE OF REACTIVE AZO DYESTUFFS".

Applicant : Bayer Aktiengesellschaft, a body corporate organized under the laws of the Federal Republic of Germany of 5090 Leverkusen, Bayerwerk, West Germany, Manufacturers.

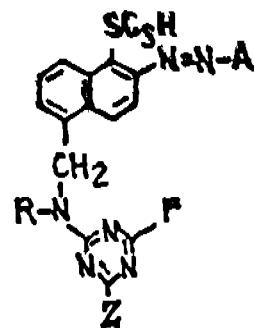
Inventor : HORST JAGER.

Application for patent No. 621/Del/79 filed on 3rd September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

2 Claims.

A process for the manufacture of reactive azo dyestuffs which in the acid form correspond to the formula I

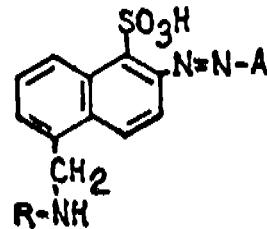


Wherein

R represents C₁-C₄-alkyl and hydrogen,

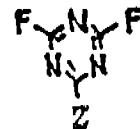
Z represents an optionally substituted amino group, an optionally etherified hydroxy group, an optionally etherified thiol group, an optionally Substituted hydrocarbon radical or fluorine and

A denotes the radical of a coupling component, characterized in that the dyestuff of the formula VI



Wherein

R and A have the meaning indicated above, is reacted with mono-condensation products of the formula VII



wherein Z has the meaning indicated above HE being split off, the reaction being carried out in an aqueous solution or suspension at neutral or weakly alkaline pH values, the hydrogen fluoride liberated during the reaction advantageously being continuously neutralised by adding aqueous alkali metal hydroxide solutions, alkali metal carbonates or alkali metal bicarbonates.

(Complete Specification 21 pages. Drawing 2 sheets).

Class : 129 G & 172C, I.

153053.

Int. Cl. : B21f 21/00.

"METALLIC CARD CLOTHING AND METHOD AND APPARATUS FOR MAKING SAME".

Applicant : JOHN DARGAN HOLLINGSWORTH, a citizen of the United States of America, of Box No. 516, Greenville, South Carolina 29602, United States of America.

Inventor : JOHN DARGAN HOLLINGSWORTH.

Application for patent No. 622|Del|79 filed on 3rd September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-5.

16 Claims.

Metallic wire card clothing comprising : an elongated metallic wire strip having a base portion : a tooth-forming portion integral with and extending upwardly from the base; and a plurality of spaced teeth punched in said tooth forming portion; wherein each said tooth has a front face, sides defined by said tooth-forming portion and a trailing edge; said front face is punched forming an acute angle across the strip presenting a sharpened leading edge pointing in the direction of movement of the clothing, and extending substantially along the length of said front face.

(Complete specification 17 pages. Drawing 2 sheets).

CLASS : 189, 53F. 153054.

Int. Cl. : A61k 5|00.

"PROCESS FOR THE PREPARATION OF A DENTAL RESTORATIVE COMPOSITE".

Applicant : COLGATE-PALMOLIVE COMPANY, a corporate organised under the laws of the State of Delaware, United States of America, of 300 Park Avenue, New York, New York 10022, United States of America.

Inventor : SAMUEL CANTOR TEMIN.

Application for patent No. 624|Del|79 filed on 4th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

13 Claims.

Process for the preparation of a dental restorative composite which comprises blending a mixture of a finely divided, inert inorganic filler of the kind such as herein described and a liquid polymerizable resin binder system of the kind such as herein described wherein the filler and binder are blended in proportions of 1 : 1 to 6 : 1 and wherein at least over 50% of said finely divided inert inorganic filler is titanium silicate and curing the mixture under polymerization conditions in the presence of a polymerization catalyst of the kind such as herein described.

(Complete Specification 15 pages).

CLASS : 189 & 55F. 153055.

Int. Cl. : A61k 5|00.

"PROCESS FOR THE PREPARATION OF A DENTAL RESTORATIVE COMPOSITE HAVING IMPROVED RESISTANCE TO ABRASION".

Applicant : Colgate-Palmolive Company, a corporation organised under the laws of the State of Delaware, United States of America, of 300 Park Avenue, New York, New York 10022, United States of America.

Inventor : SAMUEL CANTOR TEMIN.

Application for patent No. 625|Del|79 filed on 4th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

18 Claims.

Process for the preparation of a dental restorative composite having improved resistance to abrasion which comprises blending a mixture of from 10 to 50 parts by weight of a liquid polymerisable resin binder of the kind such as herein described and from 50 to 90 parts by weight of a conventional finely divided solid inert filler, from 1% to 10% by weight of said filler comprising a polyhalocarbon additive of the kind such as herein described and curing the mixture under polymerisation conditions in the presence of a polymerisation catalyst of the kind such as herein described.

(Complete specification 16 pages)..

CLASS : 32E & 152 E.

15356.

Int. Cl. : C08F 29|00.

"PROCESS FOR PREPARATION OF AQUEOUS DISPERSIONS OF POLYMERS FOR THE TREATMENT OF LEATHER".

Applicant : BAYER AKTIEGENESELLSCHAFT, a body corporate organised under the laws of the Federal Republic of Germany, of 5090 Leverkusen, Bayerwerk, West Germany.

Inventors : FERDINAND HEINS & WOLFGANG SPEICHER.

Application for patent No. 626|Del|79 filed on 4th September 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

3 Claims.

Process for the preparation of aqueous polymer dispersions having a pH of from 2 to 7 and particle diameters of from 20 to 150 nm of polymers having a T max value below 20°C comprising polymerising

- (a) from 20 to 70 parts, by weight, of one or more acyclic conjugated dienes having from 4 to 9 carbon atoms;
- (b) from 10 to 40 parts, by weight of macrylonitrile and/or methacrylonitrile;
- (c) from 1 to 5 parts, by weight of allylsulphonic acid and/or methallylsulphonic acid or watersoluble salts thereof;
- (d) less than 20 parts, by weight of acrylic and/or methacrylic acid hydroxyalkylesters having from 2 to 4 carbon atoms in the hydroxyalkyl group; and
- (e) 0 to 40 parts, by weight, of acrylic and/or methacrylic acid alkyl esters having up to 8 carbon atoms in the alkyl group

in aqueous emulsion in the presence of an initiator and an emulsifier of the anionic and/or non-ionic type.

(Complete specification 18 pages).

CLASS : 70 B.

153057.

Int. Cl. : H01m 27|00.

"A METHOD OF PREPARING ACTIVE ELECTRODES AND USE THEREOF IN ELECTROCHEMICAL CELLS".

Applicant : THE BRITISH PETROLEUM COMPANY LIMITED, of Britannic House, Moor Lane, London EC4Y 9BU, England, A British Company.

Inventors : DAVID EMMERSON BROWN & MAHMOOD NOURALDIN MAHMOOD.

Application for patent No. 627|Del|79 filed on 5th September, 1979.

Convention date 21st September, 1978 (U.K.) | 37556 | 78.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

12 Claims.

A method of producing metal electrodes having electrocatalysts deposited thereon comprising treating a metal electrode substrate so as to coat the substrate surface with a homogeneous solution of the compounds of (i) at least one metal selected from a first group of iron, cobalt, nickel and manganese, and (ii) at least one other metal selected from a second group of molybdenum, tungsten and vanadium, each of which compound is capable of thermal decomposition to the corresponding metal oxide, thermally decomposing the metal compounds on the substrate to the corresponding oxides or mixed oxides and curing the oxide-coated substrate in a reducing atmosphere at temperature between 250°C—700°C.

(Complete specification 30 pages Drawing 2 sheets).

CLASS : 195B, C. 153058.

Int. Cl. : F16K 7/00, 11/00.

IMPROVED THREE WAY SOLENOID VALVE DEVICE FOR FLUID CONTROL|MANAGEMFNT.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, Rafi Marg, New Delhi-110001, India, an Indian registered body incorporated under the Registration of Societies Act, (Act XXI of 1860).

Inventors : Raghbir Singh Khandpur, Piara Singh Malhotra and Ashok Kumar Bhandari.

Application for patent No. 673/DEL/79 filed on 24th September, 1979.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

5 Claims.

An improved three way solenoid valve device for fluid control|management comprising a valve body having an outlet chamber and a by-pass chamber, said chambers being connected to a central hole in said body, an inlet port communicating with said central hole, an outlet port connected to outlet chamber and a by-pass port connected to said by-pass chamber, a plunger-cum-valve stem assembly provided in the said central hole, said assembly comprising a housing provided with a solenoid coil, a spring-biased plunger housed in the said housing, said plunger being connected to a valve stem in said central hole such that when the coil is not energised the valve stem allows fluid to pass from the inlet port to the outlet chamber and when the coil is energised the plunger urges the valve stem to close the fluid passage from the inlet port to the outlet chamber and allows fluid to pass from the inlet port to the by-pass chamber.

(Compl Specification 10 pages. Drawing 3 sheets).

CLASS : 64B₃. 153059.

Int. Cl. : H01h 1/58.

"ELECTRICAL CONNECTOR HAVING FILTER-CONTACTS MOUNTED IN A REMOVABLE FILTER MODULE".

Applicant : THE BENDIX CORPORATION, a corporation organised and existing under the laws of the State of Delaware and having an office at Executive Offices, Bendix Centre, Southfield, Michigan 48076, United States of America.

Inventors : LEONARD ALBERT KRANTZ J R. AND EDWARD RICHARD GLIHA, JR.

Application for patent No. 678/DEL/79 filed on 24th September, 1979.

Appropriate office for opposition proceedings Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

7 Claims.

An electrical connector comprising : a shell having a passage therethrough from a forward mating face to a rear face, said shell including a shoulder facing towards one of said faces; an insert assembly having a forward face and a rear face, said insert assembly including: a body having a plurality of apertures extending therethrough; a plurality of electrical contacts, each mounted within one of the apertures in said body; a filter element mounted to each of said contacts; and means for electrically connecting the filter elements to the shell, said means including an electrically conducting member extending outwardly from the body to engage the shell and a conducting element connecting each of the filter elements to the conducting member; and mounting means for removably mounting said insert assembly within said shell passage with a portion of one of said insert assembly faces engaging the shoulder of said shell, characterized in that said mounting means includes a releasable retaining member having a portion which defines a shoulder facing toward the other of said shell faces, said shoulder engaging a portion of the other face of the insert assembly, whereby, when the insert assembly is held between the shoulder and the releasable retaining member, the filter elements of the connector are electrically connected to the shell through the conducting member and the conducting element, and when the releasable member is released, the removable insert assembly may be easily and non-destructively removed from the shell.

(Complete Specifications 10 pages. Drawing 2 sheets).

CLASS : 64B₁.

153060

Int. Cl. : H01h 1/00 & H01r 13/00.

"ELECTRICAL CONNECTOR ASSEMBLY HAVING IMPROVED THREADING CHARACTERISTICS AND METHOD OF MAKING".

Applicant : THE BENDIX CORPORATION, a corporation organised and existing under the law of the State of Delaware and having an office at Executive Offices, Bendix Centre, Southfield, Michigan 48076, United States of America.

Inventors : James William Morse and Carl Lee Knapp.

Application for Patent No. 681/DEL/79 filed on 24th September, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rule, 1972), Patent Office Branch, New Delhi-110005.

6 Claims.

A method of making a mateable electrical connector assembly including first and second shells adapted to be held in mated relationship by a coupling nut mounted to one of said shells and having a thread adapted to mate with a mating thread on the other of said shells, the method comprising : the step of forming mating threads on the coupling nut and the other shell, said threads having a tapered portion on a leading edge of the thread, and a subsequent portion of substantially uniform height, said tapering portion rising approximately uniformly in height from the surface of the coupling nut or the other shell respectively to the uniform height of the subsequent portion of threads, characterized in that it comprises the further step of removing at least a portion of said tapered portion of at least one of the threads for creating an initial blunt thread termination on the surface of the coupling nut and said other shell, whereby the blunt portion creates a barrier to cross-threading the coupling nut and shell upon mating.

(Complete Specification 9 pages. Drawing 3 sheets).

Ind. Cl. 76 B 153061.

Int. Cl. E04 g 7/00.

CLAMP AND SADDLE UNIT FOR FIXING STEP LADDER ON CORRUGATED SHEETS OF ROOFS.

Applicant & Inventor : JAIPRAKASH ANANT SATHE,
1187/25 GHOLE ROAD, PUNE-411 004, MAHARASHTRA,
INDIA.

Application No. 310/BOM/80. Filed on OCT 10, 1980.

Complete after provisional specification filed on JAN 8, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

3 Claims.

1. A clamp and saddle unit for fixing step ladders on corrugated sheets of roofs comprising in combination;

(a) a clamping means consisting of a rectangularly U shaped box, the two open limbs of said box being bent inwards at right angles with their ends being curled and leaving a longitudinal gap in between said curled ends, said clamping means being adapted to be slidably engaged with the corresponding depressions on two sides of a hollow channel railing forming step ladder frame, through the said longitudinal gap in said clamp.

(b) said clamping means being adapted to be rotatably mounted on a square boss provided on the top side of a saddle means at its centre and get locked theron, said saddle means being of an inverted U shape and having elongated slots on either side of said top boss for passing therethrough and securing saddle to bolt or J bolt of corrugated roofing sheets in the usual manner and in that said saddle having a non slip resilient pad at its bottom face to grip said saddle to the hump of the said corrugated roofing sheet when said clamp and saddle unit is secured to bolt or J bolt and

(c) said clamping means being supported on a coil spring resting on said top boss having a square shank forming a guide for said coil spring and said clamp is secured to said top boss by means of a cap nut.

Prov specn. 4 pages drags 1 sheet.

Comp specn 9 pages drags 3 sheets.

Ind. Cl. 112 F 153062.

Int. Cl. F 21 v 7/00

AN IMPROVED TUBE LIGHT REFLECTOR.

Applicant & Inventor : SHIRISH BHAILAL PATHI NANDA DEEP, 2A CARMICHAEL ROAD, BOMBAY 400 026, MAHARASHTRA, INDIA.

Application No. 299/BOM/81. Filed on OCT. 22 1981.

Complete after Provisional Left on OCT. 20, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules 1972) Patent Office, Bombay Branch.

4 Claims.

1. An improved tube light reflector having its length according to the length of the light tube and the transverse section or the end view of the said reflector is a curve, the said curve is the locus of a point whose co-ordinates are defined substantially by the formulae or equations :—

$$X = \pm (R \sin \phi - R\phi \cos \phi)$$

$$Y = (R \cos \phi + R\phi \sin \phi)$$

wherein X gives the X-co-ordinates of the said point, in different positions on the said curve. Y gives the Y-co ordinates of the said point in different positions on the said curve:

R is the radius of a circle, greater than the radius of the light tube encircling the said tube and the centre of the said circle coinciding the centre of the said tube, ϕ is the angle of motion of the said point, on the said curve formed between the vertical axes of the tube light and a radius line of the said circle having its contact point at the circumference of the circle such that the tangent drawn at this contact point striking the said curve at the said point.

Comp specn. 6 pages. drags. 2 sheet.

Prov. specn 2 pages drags. 1 sheet.

CLASS : 154D. 191.

153063.

Int. Cl. B 41 g 29/00.

A PRINTER HAVING A PRINT HEAD ASSEMBLY FOR STRIKING ON A RECORD MEDIUM.

Applicants : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

Inventor : 1. MOSI CHU.

Application No. 1032/Cal/79 filed October 4, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A printer comprising : platen means for supporting a record medium; a print head assemblage longitudinally movable along a path parallel to said platen means, said print head assemblage including printing means operable in response to a control signal for striking said platen means and magnetic means for generating a magnetic field; an elongated sonic means extending along another path parallel to said platen means and disposed in such a manner that for each position of the said print head assemblage along the platen means a region of said member i.e. the print head assemblage is under the influence of a magnetic field generated by said magnetic means such that, in the said region of said member being under the influence of a magnetic field generated by the said magnetic means, a sonic pulse is launched from that region to one end of said sonic means; measuring means as herein defined provided for measuring the time required for such a sonic pulse to travel from said region of the member to said end of the sonic means; and control signal emitting means as herein defined provided for emitting a control signal to said printing means when said measuring means measures a time directly related to a desired position of said print head assemblage along a path parallel to said platen means.

Compl. Specn. 9 pages.

Drags. 2 Sheets.

CLASS . 14A..

153064.

Int. Cl. H 01 m 39/00.

A BATTERY TRAY COVER FOR A MINE BATTERY METHOD OF MAKING SAME AND A BATTERY ASSEMBLY HAVING SAID COVER.

Applicants : GOULD INC., OF 10 GOULD CENTER, ROLLING MEADOWS, ILLINOIS 60008, UNITED STATES OF AMERICA.

Inventor : 1. WILLIAM BLAIR HAYES, JR

Application No. 1166/Cal/79 filed November 9, 1979.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A battery tray cover for a mine battery which comprises :

- (a) a substantially planar body made from synthetic plastic material e.g. poly carbonate, PVC and the like;
- (b) reinforcing means integrally formed with said planar body;

said reinforcing means comprising a first plurality of spaced and parallel members and a second plurality of spaced and parallel members, said first plurality of members intersecting said second plurality of members.

Compl. Specn. 11 pages.

Drgs. 4 Sheets.

CLASS : 141C.

153065

Int. Cl. C 22 b 1|12.

A METHOD FOR PROCESSING NON FERROUS SULFIDE ORES.

Applicants : GOSUDARSTVENNY NAUCHNO-ISSLESOVATELSKY INSTITUT TSVETNYKH METALLOV "GNITSVETMET" OF ULITSA DUROVA, 31, MOSCOW, USSR.

Inventors : 1. KONS TANTIN IVANOVICH USHAKOV,
2. MIKHAIL EFIMOVICH KHILKO,
3. RINA IOLEVNA FELMAN,
4. VASILY IBADULLOVICH SADYKOV,
5. EVGENY IVANOVICH KALNIN,
6. PAVEL AVXENTIEVICH KOVGAN.

Application No. 252|Cal|80 filed March 4, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An improved method for processing sulfide raw materials including ores such as copper, copper-zinc, copper-nickel ores, concentrates and intermediate products of ore beneficiation such as herein described in a blast furnace, comprising smelting of a charge consisting of said raw material and conventional fluxes with oxygen-containing gas blowing to produce matte, slag, elemental sulfur, and sulfur-bearing gases, characterised in that the smelting is conducted autogeneously in a blast furnace, which has a quartz layer 0.3 to 1.5 m high immediately above the tuyeres to give a means to maintain a desired amount of charge to be smelted per 1 m² of the cross section area within the tuyere zone per unit of time thereby ensuring a sufficiently complete oxidation of iron sulfide by the oxygen contained in the oxygen-enriched blow with an oxygen consumption of 300 to 400^{1/2} tonne of sulfide material, and if desired a carbonaceous reductant is used to improve recovery of sulfur in a conventional manner in the element form.

Compl. Specn. 24 page.

Drgs. Nil.

CLASS : 145E.

153066.

Int. Cl. D 21 d 5|06.

ROTARY PULP SCREENING DEVICE OF THE VERTICAL PRESSURE TYPE.

Applicants : UNIWELD INC., OF 731 GALT STREET WEST, SHERBROOKE, QUEBEC, CANADA.

Inventor : 1. ANTHONY WILLIAM HOOPER.

Application No. 512|Cal|80 filed May 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A rotary pulp screening device of the vertical pressure type comprising,

cylindrical housing having an upper inlet chamber and a lower screening chamber with a disc ring dividing the upper chamber from the lower chamber,

inlet aperture in the upper chamber,

cylindrical screen mounted within the lower chamber,

rotary impeller mounted for rotation about a central vertical axis within the screen, the impeller having an approximately paraboloid shaped body.

means for rotating the impeller,

impeller blades radiating from at least a portion of the paraboloid shaped body and extending to within a short distance of the screen over the length of the screen.

at least two dilution systems for directing dilution water onto two different fibre screening areas on the axial height of the screen,

and pulp discharge outlet from the lower chamber outside the pulp screen.

Compl. Specn. 16 pages.

Drgs. 6 Sheets.

CLASS : 94A.

153067.

Int. Cl. B 24 b 31|00.

TUMBLING MILL.

Applicants : WAAGNER-BIRO AKTIENGESELLSCHAFT OF STADLAUER STRASSE 54, POSTFACH 11, A-1221, VIENNA, AUSTRIA.

Inventor : 1. JOSEF EBNER.

Application No. 595|Cal|80 filed May 21, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

A tumbling mill having a cylindrical shell with an inlet and an outlet and a grinding chamber defined therein characterised in that the grinding chamber is formed of a series of co-axial liner rings, juxtaposed along the axis of rotation of the mill, each liner ring being formed by a plurality of liner plates secured around the inside periphery of the shell and disposed to provide rounded corner portions interconnected by curved side portions approximating an elliptic arc and having a radius of curvature greater than the corner portions, a number of spacers disposed between the liner plates and the shell at least at portions other than the corner portions, and succeeding liner rings being angularly offset about the axis of rotation of the mill.

Compl. Specn. 16 pages.

Drgs. 4 Sheets.

CLASS : 32B.

153068.

Int. Cl. C07 c 15|08.

PROCESS FOR ISOMERISING XYLEMES.

Applicants : MOBIL OIL CORPORATION, OF 150 EAST 42ND STREET, CITY AND STATE OF NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. ROGER ALLAN MORRISON,
2. SAMUEL ALLEN TABAK.

Application No. 599|Cal|80 filed May 22, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

15 Claims.

A process for isomerizing xylenes in a charge which also contains ethylbenzene, by contact at conversion conditions with a catalyst comprising a zeolite having a silica-alumina ratio greater than 12 and a constraint index of 1 to 12, which comprises including in the charge alkyl aromatics of more than eight carbon atoms, maintaining the conversion pressure at less than 100 pounds per square inch and the conversion temperature at from 426.7°C. (800°F) to 537.8°C. (1000°F), said catalyst being one which can convert less than 2 weight percent of xylene to compounds other than xylene at 482.2°C. (900°F), 1480.3 kpa (200 psig) and 5 LHSV.

Compl. Specn. 31 pages.

Drgs. 1 Sheet.

CLASS : 40F.

153069.

Int. Cl. C 02 c 5|02.

PROCESS FOR THE RECOVERY OF PHOSPHORUS COMPOUNDS FROM WASTE WATER.

Applicants : STAMICARBON B. V.; OF P.O. BOX 10, GELEEN, THE NETHERLANDS.

Inventors : 1. CORNELIS WILHELMUS VERHOEVE,
2. CORNELIS ANTONIUS MARIA WETERINGS.

Application No. 745|Cal|80 filed June 28, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims.

Process for the recovery of phosphorous compounds from waste water by treating the waste water containing phosphorous compounds with one or more metal compounds to form a water-insoluble metal phosphate compound, this process being characterized in that the waste water is treated with the metal compound in a fluidized bed of metal phosphate particles.

Compl. Specn. 10 pages.

Drgs. Nil.

CLASS : 40E, 140B.

153070.

Int. Cl. C 10 g 7|00.

SEPARATOR FOR OIL, GAS AND WATER.

Applicants : THE BRITISH PETROLEUM COMPANY LIMITED, BRITTANNIC HOUSE, MOOR LAND, LONDON EC2Y 9BU, ENGLAND.

Inventors : 1. EVAN ELLIS DAVIES, 2. JIRI RODOLF NEBRENSKY.

Application No. 907|Cal|80 filed August 8, 1980.

Convention dated 9th August, 1979 (27806|79) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A cyclone separator suitable for separating a crude oil feed containing gas and water into (i) gas, (ii) an oil rich liquid, and (iii) a water rich liquid comprising a vessel having

(a) an inlet (46) for feed disposed so that the feed introduced under a pressure gradient is caused to form a downwardly flowing vortex of liquid from which the gas separates,

(b) an upper outlet (48) for the gas comprising a pipe extending downwardly into the vessel,

(c) a downwardly extending hollow truncated cone (52) whose apex angle is less than 20° located below the inlet and disposed so that its internal surface provides a surface for the downwardly flowing vortex of liquid the walls of the vessel being spaced apart from the truncated cone to define therebetween a disengaging chamber, the vessel being sized so as to allow the downwardly flowing liquid to separate into an oil rich liquid layer and a water rich liquid layer.

(d) a first lower outlet (56) for the oil rich liquid and located so as to withdraw liquid from below the lower end of the cone, and

(e) a second lower outlet (68) for the water rich liquid and located below the first lower outlet.

Compl. Specn. 13 pages.

Drgs. 3 Sheets.

CLASS : 32F₁, 32F₂L, 55E₄, 60X₂d.

153071.

Int. Cl. A 61 k 21|00; C 07 d 91|00.

A PROCESS FOR THE PREPARATION OF (2-AMINO-THIAZOL-4-YL)-ACETIC ACID HYDROCHLORIDE.

Applicants : LONZA LTD., OF GAMPEL|VALAIS, SWITZERLAND.

Inventors : 1. ALFRED HUWILER, 2. LEANDER TENUD.

Application No. 59|Cal|81 filed January 20, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A process for the preparation of (2-aminothiazol-4-yl)-acetic acid hydrochloride, wherein thiourea is suspended in water and 4-chloroacetoacetyl chloride, dissolved in a chlorinated hydrocarbon, is added thereto at a temperature of from 5 to 10°C, whereafter the reaction is continued at a temperature of from 25 to 30°C.

Compl. Specn. 7 pages.

Drgs. Nil.

CLASS : 71B; 131B₄.

153072.

Int. Cl. E01 g 3|04.

DEVICE FOR PROVISIONALLY CONSOLIDATING A MINE DRIFT OR A TUNNEL.

Applicants : VOEST-ALPINE AKTIENGESELLSCHAFT, OF A-1011 VIENNA, FRIEDRICHSTRASSE 4, AUSTRIA.

Inventors : 1. KARL ASTLEITNER, 2. OTTO SCHTINA, 3. ALFRED ZITZ.

Application No. 174|Cal|81 filed February 16, 1981.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

14 Claims.

Device for provisionally consolidating a mine drift of a tunnel adjacent the mine face or the tunnel face by means of provisional frames, said drift or tunnel being advanced by means of a cutting machine comprising a universally pivotable cutting arm carrying the cutting tool, said cutting machine having fixed thereto a rigid longitudinal beam and comprising a feed carrier arranged to be advanced on the longitudinal beam in direction to the mine face or tunnel face and a transport carriage for transposing the provisional frames in longitudinal direction of the drift or tunnel being movably arranged on the feed carrier, characterized in that the feed carrier is in its advanced position supported on a supporting bracket itself being supported against the cutting machine independent of the rigid longitudinal beam and in that the transport carriage is provided with a hoisting unit comprising a support for the provisional consolidating frame.

Compl. Specn. 15 pages

Drgs. 2 Sheets.

CLASS : 163D.

153073

Int. Cl. F 02 b 53/00.

ROTARY INTERNAL COMBUSTION ENGINES.

Applicants and Inventors : JAMES LAWRENCE McCANN, OF 205-8860 NO. 1 ROAD, RICHMOND, BRITISH COLUMBIA, CANADA V7C 4C1.

Application No. 235/Cal/82 filed March 1, 1982.

Appropriate office or opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A rotary internal combustion engine, comprising a rotor;

a vane extending slidably through the rotor in a transverse direction for rotation therewith, the vane having opposite ends extendable beyond the rotor; and

a stator with a hollow, cylindrical interior, the rotor being rotatably received within the interior, the stator having opposite side walls with circumferentially extending recesses therein, the recesses being shaped to slidably receive the ends of the vane in sealing contact and the recesses of the opposite walls being staggered, causing transverse reciprocation of the vane as the rotor is rotated, air being compressed within the recesses and exhaust gases being purged from the recess forwardly of the vane in a rotational direction of the rotor, air being taken into the recesses rearwardly of the vane in a direction opposite the direction of rotation and an air/fuel mixture being ignited within the recesses rearwardly of the vane to propel the rotor in the rotational direction.

Compl. Specn. 13 pages.

Drgs. 4 Sheets.

CLASS : 34A.

153074.

Int. Cl. D 06 j 1/00.

PROCESS FOR THE MANUFACTURE OF A FIBROUS PRODUCT COMPRISING LINEN OR RAMIE FIBRES WITH IMPROVED CREASE RESISTANCE.

Applicants : LINTREND DEVELOPMENTS (N. I.) LIMITED, OF ARNOTTS BUILDINGS, 12 BRIDGE STREET, BELFAST, NORTHERN IRELAND, GREAT BRITAIN.

Inventor : FREDERICK RICHARD WILFRED SLOAN.

Application No. 150/Cal/80 filed February 8, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

12 Claims.

A process for the manufacture of a fibrous product comprising linen or ramie fibres with improved crease resistance, by contacting the product with strong alkali while the product is substantially free of resin or textile cross-linking agent under conditions such that the fibres can shrink by at least 10% in length and such that the product shrinks by at least 10%, and then cross-linking the product, characterised in that the product resulting from the contact with alkali as herein defined is rinsed and is then reacted with a cellulose cross-linking agent as herein defined in the presence of an acidic catalyst as herein defined while the fibres are substantially in the said shrunk configuration, thereby fixing the fibres substantially in the said shrunk configuration.

Compl. Specn. 22 pages.

Drgs. 1 Sheet.

CLASS : 153.

153075.

Int. Cl. B24 d 5/00.

PROCESS FOR PREPARING A POLYCRYSTALLINE DIAMOND BODY.

Applicants : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY 5, NEW YORK, UNITED STATES OF AMERICA.

Inventors : 1. ROBERT CHARLES DEVRIES, 2. MIN- YOUNG LEE, 3. LAWRENCE EDWARD SZALA, 4. PETER TUFT.

Application No. 412/Cal/80 filed April 9, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

A process for preparing a polycrystalline diamond body useful as abrasive, cutting tool, nozzle or other wear-resistant part which comprises confining within a reaction chamber a charge composed of solid eutectiferous silicon-rich alloy, or solid components thereof for providing eutectiferous silicon-rich alloy and a mass of diamond crystals in contact with said mass of solid eutectiferous silicon-rich alloy, or with at least one of said components for providing eutectiferous silicon-rich alloy, and hexagonal boron nitride in contact or in association with said alloy or with at least one of its components, said eutectiferous silicon-rich alloy being composed of silicon and a metal which forms a silicide with said silicon, said hexagonal boron nitride being present in an amount of at least 5% by weight of the mass of diamonds, applying a pressure of at least 25 kilobars to said confined charge compressing the mass of diamond crystals to a density higher than 90% by volume of the resulting compressed mass of diamond crystals, maintaining said applied pressure, heating the pressure-maintained charge to an infiltration temperature sufficient to melt said alloy and at which no significant graphitization of the diamond occurs whereby said alloy is infiltrated through the interstices between said compressed mass of diamond crystals, said alloy being used in an amount sufficient to fill the interstices of said compressed mass of diamond crystals, said infiltrating silicon-rich alloy encapsulating the surfaces of the compressed diamond crystals reacting with diamond surfaces or any non-diamond elemental carbon producing a carbide which at least in major amount is silicon carbide, ceasing the input of heat into the resulting infiltrated diamond mass, removing said pressure and recovering the resulting polycrystalline diamond body comprised of diamond crystals bonded together by a silicon atom-rich bonding medium wherein the diamond crystals are present in an amount ranging from at least 80% by volume up to 95% by volume of the total volume of said body.

Compl. Specn. 32 pages.

Drgs. 3 Sheets.

CLASS : 32B; 40B.

153076

Int. Cl. B01j 11/32, C07c 1/24, C07c 11/04.

AN IMPROVED ACTIVATED ALUMINA CATALYST FOR PRODUCTION OF ETHYLENE FROM ETHANOL.

Applicants : NIKKI CHEMICAL CO., LTD., OF NO. 2-1, OTEMACHI 2-CHOME, CHIYODA-KU TOKYO, JAPAN.

Inventors : 1. MITSUO KOJIMA, 2. TAKASHIRO AIDA, 3. YUKIO ASAMI.

Application No. 505/Cal/80 filed May 2, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An improved activated alumina catalyst for the production of ethylene by dehydration of ethanol at a temperature of from 300 to 450°C, a pressure of from atmospheric pressure to 20 kg/cm² G and a liquid hourly space velocity of from 0.25 to 5.0 hr⁻¹, characterised in that said catalyst comprises an activated alumina having a purity of at least 99.6 wt.% and containing not more than 0.05 wt.% of each of alkali metal sulfur, iron and silicon, calculated as Na₂O, SO₃, Fe₂O₃ and SiO₂, respectively, and said catalyst additionally comprises from 0.05 to 5 wt.% based on the weight of said activated alumina, of at least one phosphates, of a metal of Group IIa, IIb, IIIb or IVa of the Periodic Table.

Compl. Specn. 18 pages.

Drgs. Nil.

CLASS : 32F₂ b

153077.

Int. Cl. : C 07 d 55/24.

METHOD FOR THE PREPARATION OF MELAMINE.

Applicants : STAMICARBON B. V., OF P.O. BOX 10,
GELEEN, THE NETHERLANDS.

Inventors : 1. RUDOLF VAN HARDEVOLD, 2. JEAN
JOSEPH SOPHIE MARIE MOREAU, 3. PIERRE GERAND
MARIE BERNARD BRULS, 4. JOHANNES GERARDUS
VAN HINSBERG.

Application No. 510/Cal/80 filed May 3, 1980.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

Method for the preparation of melamine by converting urea in a fluid bed of catalytically active material has herein defined and desublimating and separating melamine, by cooling, form the gas mixture formed in that process, with formation of an off gas mixture consisting mainly of NH₃ and CO₂, characterized in that, optionally, the off gas mixture is filtered to remove entrained dust and compressed to compensate for the loss of pressure and 50-90% of said compressed off gas mixture is used direct as fluidizing gas for the bed of catalytically active material.

Compl. specn. 7 pages. Drgs. 1 sheet.

CLASS : 108B₁ (a)

153078.

Int. Cl. : C 21 b 5/00.

METHOD AND APPARATUS FOR PRODUCING
MOLten IRON FROM IRON OXIDE WITH COAL AND
OXYGEN.

Applicants : MIDRES CORPORATION, OF ONE NCNB
PLAZA, CHARLOTTE, NORTH CAROLINA 28280,
UNITED STATES OF AMERICA.

Inventors : 1. DONALD BEGGS, 2. CHARLES WALTER
SANZENBACHER, 3. JOHNN COMBS SCARLETT.

Application No. 713/Cal/80 filed June 20, 1980.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

32 Claims.

A method for reducing particulate iron oxide and producing molten iron, comprising :

(a) chemically reducing particulate iron oxide to solid particulate metallized iron product in a shaft-type reduction furnace by reaction with a hot reducing gas consisting principally of carbon monoxide and hydrogen;

(b) discharging the hot particulate metallized iron product into a melting chamber containing a molten metal bath.

(c) injecting fossil fuel and oxygen into said chamber to melt the iron and to gasify the fossil fuel to form a hot off-gas within the chamber;

(d) cooling and humidifying the hot off-gas within the chamber to form a hot reducing gas;

(e) removing said hot reducing gas from the chamber, and introducing said hot reducing gas to the shaft furnace as reductant to react with the particulate iron oxide to reduce it to particulate iron product; and

(f) drawing off the molten iron product from said chamber.

Compl. specn. 19 pages. Drgs. 3 sheets.

CLASS : 70A

153079.

Int. Cl. B 01 k 3/00.

APPARATUS FOR ELECTROLYZING AN AQUEOUS
SOLUTION.

Applicants : CHLORINE ENGINEERS CORP., LTD., OF
NO. 1-1, TORANOMON 2-CHOME, MINATO-KU,
TOKYO, JAPAN.

Inventors : 1. TERUO ICHISAKA, 2. YOSHITUGU
SHINOMIYA.

Application No. 731/Cal/80 filed June 26, 1980.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

In an apparatus for electrolyzing an aqueous solution, which includes a plurality of electrolytic cells disposed at a plurality of vertically spaced levels and divided by partitions from one another, each of said cells having at least one anode and at least one cathode, said cells including an uppermost cell having an inlet for said solution, and a lowermost cell having an outlet for said solution, the improvement wherein :

(a) each of said cell is separated by at least one dividing wall structure into at least two horizontally adjacent cell units;

(b) said dividing wall structure is adapted to direct the flow of said solution from the top of one of said cell units into the bottom of adjacent cell unit, thereby enabling said solution to flow successively through each cell unit;

(c) a last cell unit of each cell is provided with an opening defining a passage extending from the top of said last cell unit to the bottom of a cell unit at a lower level immediately below said last cell unit to direct the flow of said solution downwardly from said last cell unit into said cell unit at said lower level;

(d) said anode and said cathode are vertically disposed in each said cell unit opposite to each other, and form a bipolar electrode assembly extending between said adjacent cell units; and

(e) each said cell unit has a gas collecting zone defined above said anode and said cathode, and is provided with a gas riser extending from one of said partitions defining the bottom of said each cell unit to said gas collecting zone in which said gas riser has one open end, said gas riser having another end extending through said one partition and opening toward the gas collecting zone in the cell unit immediately below said each cell unit, said uppermost cell being provided at its top with a gas outlet.

Compl. specn. 14 pages. Drgs. 2 sheets.

CLASS : 206G

153080.

Int. Cl. H 03 d 5/00.

IMPROVEMENTS IN OR RELATING TO COMMON
CHANNEL DUPLEX TRANSCEIVERS.

Applicants : PLESSEY OVERSEAS LIMITED OF VICKAGE LANE ILFORD, ESSEX IG1 4AQ, ENGLAND.

Inventor : 1. CHRISTOPHER KEITH RICHARDSON.

Application No. 778/Cal/80 filed July 5, 1980.

Convention dated 6th July, 1979 (23731/79) U.K.

Appropriate office for opposition proceedings (Rule 4,
Patents Rules, 1972) Patent Office, Calcutta.

13 Claims.

A common channel duplex transceiver comprising oscillator/modulator means adapted for angle modulation and providing an output signal for transmission wherein the phase deviation does not substantially exceed 90°, aerial means for transmitting said output signal and for accepting received signals, first mixer means for mixing said transmission signal from said oscillator/modulator means with said received signal, phase quadrature means arranged so that one of the signals fed to the first mixer means is in phase quadrature with the corresponding signal fed to the second mixer means and demodulator means fed with signal from the mixers, the demodulator means comprising two band pass filter means fed one from each mixer, phase shift means effective for imposing a differential phase shift of substantially 90° between the output signals from the two filter means and combiner means to which output signals from the phase shift means are fed and which provides a demodulated output signal.

Compl. specn. 10 pages. Drgs. 1 sheet.

CLASS : 50E₄

153081.

Int. Cl. F 04 b 1|00.

A RADIAL COMPRESSOR.

Applicants : TECUMSEH PRODUCTS COMPANY, OF TECUMSEH, MICHIGAN, 49236, UNITED STATES OF AMERICA.

Inventor : 1. EDWIN LEFLORE GANNAWAY.

Application No. 853|Cal|80 filed July 25, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A radial compressor comprising :

a crankcase having at least three radially oriented cylinders therein, said crankcase comprising two halves in abutment along a planar interface axially intersecting said cylinders such that each of said cylinders is defined by a pair or semi-cylindrical recesses in the respective halves of said crankcase, a crankshaft received in said crankcase and positioned at the common center of said cylinders, a plurality of cylindrical pistons connected to said crankshaft so as to form therewith a interconnected assembly, said pistons being received in said cylinders, respectively, a cylindrical cylinder liner received in each of said cylinders and having said pistons received therein, said liners each having a cylindrical outer surface which is enclosed within said crankcase and which is contacted around substantially its entire periphery by the confronting surfaces of the respective pair of semicylindrical recesses, said liners serving to align the semicylindrical recesses of the respective pairs in a tangential direction relative to the axis of said crankshaft, and a valve mechanism on the radially outer end of each of said cylinders.

Compl. specn. 14 pages. Drgs. 4 sheets.

CLASS : 32F₉ h. 44F₄ 60X. d.

153082.

Int. Cl. C 07 d 27|08

PROCESS FOR THE MANUFACTURE OF PYRROLIDINE DERIVATIVES.

Applicants : F. HOFFMANN-LA ROCHE & CO AKTIEN-GESELLSCHAFT, 124-184 GRENZACHERSTRASSE, BASEL, SWITZERLAND.

Inventors : 1. WERNER ASCHWANDEN, 2. EMILIO KYBURZ.

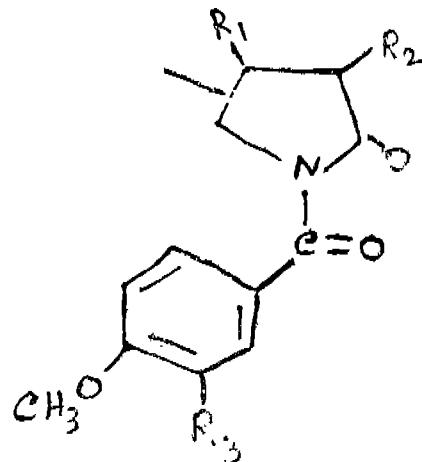
Application No. 908|Cal|80 filed August 8, 1980.

Complete Specification left 3rd July, 1981.

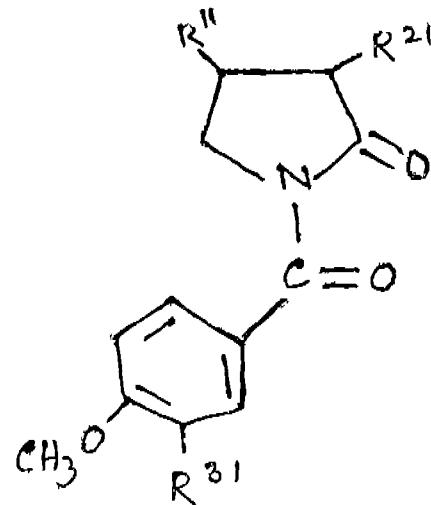
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

A process for the manufacture of novel pyrrolidine derivatives of the general formula I shown in the drawings



accompanying the provisional specification wherein one of R¹, R² and R³ represents hydroxy and the other two represent hydrogen, which process comprises removing the protecting group from a pyrrolidine derivative of the general formula II of the drawings accompanying the



provisional specification, wherein one of R¹¹, R²¹ and R³¹ represents a protected hydroxy group and the other two represent hydrogen, with the proviso that when R¹¹ represents a protected hydroxy group, the protecting group is not an acyl group.

Compl. specn. 47 pages. Drgs. 1 sheet.

CLASS : 172D.

153083.

Int. Cl. D 01 h 7|88

A TWO-FOR-ONE SPINNING OR TWISTING SPINDLE HAVING A COMPRESSED-AIR-OPERATED THREADING ARRANGEMENT.

Applicants : PALITEX PROJECT COMPANY GMBH., OF WESERWEG 8, 4150 KREFELD 1, FEDERAL REPUBLIC OF GERMANY.

Inventor : JURGEN KALLMANN.

Application No. 983|Cal|80 filed August 27, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

7 Claims.

A two-for-one spinning or twisting spindle having a supply package carrier which is held stationary, a thread storage member which is situated beneath the latter and which forms part of the spindle rotor and which has a substantially radially extending thread exit passage, and a compressed-air-operated threading arrangement situated in the region occupied by a hollow shaft of the spindle and by which a thread is able to be sucked in by injector action and fed onward by a jet or compressed air in a predetermined direction, characterised in that a suction orifice of the injector nozzle of the threading arrangement continues on from the inner end of the thread exit passage, while an outlet orifice of the injector nozzle is directed towards or into the bottom end of a thread entry tube in the opposite direction to the direction of movement of the thread from the supply package during the twisting process.

Compl. specn. 16 pages. Drgs. 2 sheets.

CLASS : 108B₁

153084.

Int. Cl. C 21 b 13|02

METHOD OF MAKING SPONGE IRON.

Applicants : HYLSA, S. A., APARTADO NUM. 1423, MONTERREY, N. L., MEXICO.

Inventors : 1. JUAN FEDERICO PRICE-FALCON. 2. ENRIQUE RAMON MARTINEZ-VERA.

Application No. 1007|Cal|80 filed September 3, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

16 Claims.

A method of reducing particulate iron ore to sponge iron particles in a vertical moving bed reactor having a reduction zone in the upper part thereof in which a hot reducing gas is caused to flow through a portion of said bed to reduce iron ore thereof to sponge iron and having a cooling zone maintained at a temperature between 500 and 700° Celsius in the lower part of said reactor for cooling said sponge iron, which method comprises feeding a carbon-containing cooling gas to a point near one end of said cooling zone to cause said gas to flow through said cooling zone in contact with sponge iron therein and carburize it, removing said cooling gas at a point near the other end of said cooling zone, cooling the removed gas and recirculating the cooled gas to said cooling zone to form a closed cooling gas loop, said method being characterized by the fact that a make-up gas containing a substantial amount of gaseous hydrocarbon is added to said loop, steam is added to said loop to cause said steam and gaseous hydrocarbon to react within said cooling zone to form carbon monoxide and hydrogen and a portion of the gas from said loop is used to reduce iron ore in said reduction zone.

Compl. specn. 14 pages. Drgs. 1 sheet.

CLASS : 98I

153085.

Int. Cl. F 24 j 3|02

ELECTROMAGNETIC ENERGY COLLECTION DEVICE PARTICULARLY FOR SOLAR RADIATION.

Applicants and Inventors : JACQUES MARIE HANLET, OF 3880 LEARWOOD DRIVE, LOXAHATCHEE, FLORIDA 3370, UNITED STATES OF AMERICA AND ELIA ROCCO J. TARANTINO, OF 265 SANDPIPER DRIVE, PALM BEACH, FLORIDA 33480, UNITED STATES OF AMERICA.

Application No. 1021|Cal|80 filed September 8, 1980.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A device for the collection of electromagnetic radiation energy from electromagnetic radiation impinging thereon comprising an outer tube which is substantially transparent to the incident radiation, an inner, energy absorbing tube coaxially mounted within the outer tube and defining therewith a sealed and evacuated annular chamber surrounding the inner tube, said tubes having an axis of rotational symmetry permitting collection of radiation energy over an arc of 360° about said axis, means for introducing a fluid heat exchange medium into the energy absorbing tube so as to flow over the inner surface thereof and thereby to recover absorbed energy therefrom in the form of sensible heat, and means for recovering the heat exchange medium containing said recovered energy from the energy absorbing tube, wherein the outer surface of the inner energy absorbing tube is provided with grooves extending over the whole circumference and substantially completely along the length thereof, said grooves having a generally triangular section with an included angle in the range 3.0° to 30°, and wherein grooved surface of said inner energy forming or coated with a material absorbing tube is of low emissivity.

Compl. specn. 36 pages. Drgs. 5 sheets.

CLASS : 9B; 70A & B.

153086.

Int. Cl. H 01 m 17|00

AN ELECTRIC PRIMARY CELL.

Applicants : MAGNESIUM ELEKTRON LIMITED, OF LUMANS LAND CLIFTON JUNCTION, SWINTON, MANCHESTER, ENGLAND.

Inventors : 1. JOHN FREDERICK KING. 2. STEPHEN LEE BRADSHAW.

Application No. 1068|Cal|80 filed September 19, 1980.

Convention date 19th September, 1979 (32401|79) U.K.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

4 Claims.

An electric primary cell having a conventional cathode and a novel anode of magnesium alloy formed by alloying together the following constituents by weight, apart from normal impurities.

Al	—	1	—	9%
Zn	—	0	—	4%
Sn	—	0.1	—	5%
Mn	—	0	—	1%
Mg	—	Remainder		

Compl. specn. 17 pages. Drgs. 3 sheets.

OPPOSITION PROCEEDINGS

AMENDMENT PROCEEDINGS UNDER SECTION 57

(1)

An opposition has been entered by Mechelonic Welders Private Limited to the grant of a patent on application No. 152038 made by Paul Opprecht.

(2)

An opposition has been entered by Director General, Research, Designs & Standards Organisation, Ministry of Railways, to the grant of a patent on application No. 152224 made by Franz Plasser Bahnbaumaschinen Industriegesellschaft m.b.H.

PATENTS SEALED

142093 150602 150856 151429 151436 151473 151494 151689
 151690 151691 151692 151693 151695 151708 151732 151751
 151758 151853 151854 151859 151860 151866 151867 151869
 151875 151877 151879 151880 151881 151884 151885 151886
 151887 151892 151893 151894 151895 151897 151900

Notice is hereby given that Texaco Development Corporation, a Delaware Corporation of 135 East 42nd Street, New York, New York-10017, U.S.A. have made an application under Section 57 of the Patents Act, 1970 for amendment of specification of their Patent application No. 152412 for "Improved Process for making ethylene glycol". The amendments are by way of correction to define the invention more clearly. The application for amendment and the proposed amendments can be inspected free of charge at the Patent Office, 214 Acharya Jagadish Bose Road, Calcutta-70017, or copies of the same can be had on payment of the usual copying charges. Any person interested in opposition the application for amendment may file a notice of opposition on the prescribed Form 30 within three months from the date of this notification, at the Patent Office, Calcutta. If the written statement of opposition is not filed with the notice of opposition it shall be left within one month from the date of filing the said notice.

COMMERCIAL WORKING OF PATENTED INVENTION

ELECTRICAL ENGG. LIST-III

The following Patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by the patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1982, generally on account of want of requests for licences to work the said patents, commercially may contact the patentees for the grant of licence for the purpose.

Sr. No.	Patent No.	Date of Patents	Name and Address of Patentees	Title of the invention
1	2	3	4	5
1.	140013	9-11-1973	BURROUGHS CORPORATION of Burroughs place, Detroit Michigan 48232 U.S.A.	Magnetic recording verification
2.	140045	7-8-1973	Do.	Digital Computer apparatus.
3.	140054	19-7-1974	Do.	Display panel.
4.	140062	17-12-1974	USS ENGINEERS AND CONSULTANTS INC, of 600 Grant street pittsburgh, state of Pennsylvania U.S.A.	Low balanced reactance delta closure for electric arc furnace transformers.
5.	140085	14-9-1973	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232 U.S.A.	Apparatus for automatic generation of minicomputer instructions for discrete classes of applications.
6.	140104	5-4-1974	SIEMENS AKTIENGESELLSCHAFT of Berlin & Munich, West-Germany.	Improvements in or relating to microwave circulators.
7.	140163	8-8-1973	THE SOLARTRON ELECTRONIC GROUP LTD. of Victoria Road, Farnborough Hampshire England.	Improvements in weapon training systems particularly for stimulating the use of a weapon against target.
8.	140176	12-11-1974	BURROUGHS CORPORATION of Burroughs Place, Detroit, Michigan 48232 U.S.A.	A date given Information processing systems.
9.	140185	9-10-1974	SIEMENS AKTIENGESELLSCHAFT of Berlin & Munich, Federal Republic of Germany.	Improvement in or relating to piezoelectric resonators.
10.	140227	5-12-1974	UNITED AIRCRAFT CORPN. of 400 Main Street, East Hartford, Connecticut, U.S.A.	A fuel cell electrode.
11.	140415	4-12-1973	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA of 1-8, Horidome-cho, Nihonbashi, chuo-ku, Tokyo, Japan.	A multiple vertical diaphragm type electrolytic cell for producing caustic soda.

1	2	3	4	5
12.	140475	21-10-1975	UNION CARBIDE INDIA LTD. of 1 Middleton Street, Calcutta-700016 West Bengal, India.	Flash lights or electro torches.
13.	140560	10-7-1974	BURROUGHS CORPORATION of Burroughs Place, Detroit Michigan 48232 U.S.A.	A microprogrammable computer system.
14.	140572	11-7-1974	Do.	Chain printer utilizing a plurality of teeth for engaging driving means and apparatus for generating a unique binary code.
15.	140601	23-11-1973	THE GENERAL ELECTRIC COMPANY LTD. of 1, Stanhope Gate London W1A 1EH, England.	Improvements in or relating to protective devices for electrical power transmission system.
16.	140603	9-4-1974	BURROUGHS CORPORATION of Burroughs Place, Detroit Michigan 48232 U.S.A.	A small microprogramme data processing system employing multisyllable microinstructions.
17.	140736	26-9-1973	WESTINGHOUSE ELECTRIC CORPORATION of Pittsburgh, Pennsylvania, U.S.A.	Protective relay system.
18.	140869	4-2-1975	SIEMENS A.G. of Berlin & Munich, West Germany.	Electromagnetically operable switch gear.
19.	140926	1-4-1974	Do.	Improvements in or relating to microwave calculators.
20.	140928	15-4-1974	MONSANTO COMPANY of 800 North Lindbergh Boulevard, St. Louis, Missouri 63166 U.S.A.	Capacitor & dielectric impregnant composition therefor.
21.	140988	19-12-1973	SIEMENS A.G. of Berlin & Munich, West Germany.	Improvements in or relating to carriers frequency data transmission system.
22.	141057	27-12-1973	GOULD INC. of 1110 Highway 110 Mendota Heights Minnesota, U.S.A.	A method of making a lead acid storage battery and battery itself capable of activation by the addition of electrolyte.
23.	141075	19-3-1975	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway center, Pittsburgh, Pennsylvania, 15222, U.S.A.	Out door current limiting fuse.
24.	141177	16-10-1973	E.I. DU PONT DE NEMOURS & CO. of Wilmington, Delaware U.S.A.	An electrolytic process and electrolytic cells thereof.
25.	141426	3-12-1974	USS Engineers & consultants, Inc. of 600 Grant street, Pittsburgh, state of Pennsylvania, U.S.A.	Improvements in or relating to process for electro-deposition of tin on to steel sheet and strip.
26.	141499	15-5-1975	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway center, Pittsburgh, Pennsylvania U.S.A.	Electrical measuring instrument.
27.	141568	30-9-1974	RCA CORPORATION of 30 Rockefeller Plaza New York, N.Y. 10020 U.S.A.	An improved television receiver deflection synchronization system.
28.	141692	21-5-1974	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway center, Pittsburgh, Pennsylvania, U.S.A.	Fail-safe optically coupled logic networks.
29.	141694	27-5-1974	SNAMPROGETTI S.P.A. of 16 corso Venezia, Milan, Italy.	Apparatus suitable for examining submerged pipelines.
30.	141753	22-3-1974	UNION CARBIDE CORPORATION of 270 park avenue, New York, State of New York 10017 U.S.A.	Push button switching module for flashing light and its use in flash light.

1	2	3	4	5
31.	141767	2-9-1974	WESTINGHOUSE ELECTRIC CORPORATION of Westinghouse bldg. Gateway center Pittsburgh, Pennsylvania-15222 U.S.A.	Molded magnetic cores utilizing cut steel particles.
32.	141868	20-9-1974	UNION CARBIDE CORPORATION of 270 Park avenue, New York, State of New York 10017 U.S.A.	Primary dry cells.
33.	141883	1-5-1973	LES FORGES DE ZEEBRUGGE S.A. of 71 to 145 Rue Bellonay 4400 Herstal Liege, Belgium.	A power source of propellant for a rocket motor.
34.	141958	17-10-1974	HITACHI LIMITED of 5-1, Chome, Muromachi, Chiyoda-ku, Tokyo, Japan.	Regenerative break control system for DCM motor.
35.	141933	26-10-1974	RCA CORPORATION of 30 Rockefeller Plaza, New York New York 10020 U.S.A.	Semiconductor devices and method of making the same.
36.	142056	21-10-1975	UNION CARBIDE INDIA LTD. of Middleton Street, Calcutta-700016, West Bengal, India.	Rotary switch mechanism in & for an electric torch or flashlight.
37.	142070	30-9-1974	SIEMENS-ALBIS AKTIENGESELLSCHAFT of Albisriederstrasse 245, 8047 Zurich, Switzerland.	Improvements in or relating to doppler pulse radar systems.
38.	142073	4-8-1975	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232, U.S.A.	Data processing system.
39.	142331	3-10-1975	BRITISH STEEL CORPORATION of 33, Grosvenor place S.W. 1, England.	Improvements in or relating to non destructive testing apparatus.
40.	142354	12-2-1975	BURROUGHS CORPORATION of Burroughs place, Detroit Michigan 48232 U.S.A.	A data storage device.
41.	142419	8-7-1974	SUN OIL COMPANY of 1608 Walnut Street, Philadelphia, Pennsylvania U.S.A	An acoustic telemetering system.
42.	142422	30-6-1975	USS ENGINEERS & CONSULTANTS INC. of 600 Grant street, Pittsburgh, state of Pennsylvania U.S.A.	Electrolytic treating apparatus
43.	142485	2-11-1974	INCO EUROPE LTD. of Thames House, Millbank, London SW1P 4QF.	Process for electrodepositing metal onto surface containing an organic polymer.
44.	142518	1-8-1975	RHONE-POULENCE INDUSTRIES of 22 Avenue montaigne, 75, Paris (8th) France.	Microporous membranes and a method of obtaining them.
45.	142578	21-12-1974	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232 U.S.A.	A binary data processor.
46.	142647	25-6-1975	JOHNS MANVILLE CORPN. of 22nd East 40th Street, New York 16 state of New York U.S.A.	An electric furnace with an improved furnace outlet.
47.	142777	10-9-1975	SIEMENS AKTIENGESELLSCHAFT of Berlin & Munich, West Germany.	Improvements in or relating to sealing bodies for cable bed ins.
48.	142824	18-7-1974	RCA CORPORATION of 30 Rockefeller Plaza, New York, N.Y. 10020 U.S.A.	Semi-conductor device with heat sink.
49.	142937	10-6-1974	WESTINGHOUSE ELECTRIC CORPORATION of westinghouse bldg. Gateway center, Pittsburgh, Pennsylvania 15222 U.S.A.	A high voltage electrical device incorporating epoxy anhydride prepgs.
50.	143013	2-12-1974	BURROUGHS CORPORATION. of Burroughs place, Detroit, Michigan 48232 U.S.A.	A binary data processor system.
51.	143030	25-3-1975	FRENCH STATE of 4 Avenue de La Porte d Issy 75996 Paris avenue U.S.A.	Power plant.

1	2	3	4	5
52.	143183	12-7-1976	Dr. C. OTTO & COMP. GMBH. of christstrasse 9. 463 Bochum, West Germany.	Battery of coke ovens with regenerative heat exchange.
53.	143187	11-6-1974	WESTINGHOUSE ELECTRIC CORPORATION. of westinghouse Bldg. Gateway centre, Pittsburgh, Pennsylvania, U.S.A.	High pressure mercury vapour discharge lamp.
54.	143218	13-1-1975	Do.	Circuit interrupter with electromagnetic opening means.
55.	143264	28-8-1974	GOULD INC. of 1110, Highway 110, Mondota heights, Minnesota, U.S.A.	A method of making lead-acid storage battery.
56.	143269	23-8-1975	KUREHA KAGAKU KOGYO KABUSHIKI KAISHA of 1-8 Horidome-cho, Nihonbashi, chuo-ku Tokyo, Japan.	Caustic alkali producing vertical diaphragm type electrolytic cell admitting of easy assembly.
57.	143373	29-4-1975	SIEMENS A.G. of Berlin & Munich, West Germany.	Improvements in or relating to fault Signalling system for transmission system.
58.	143408	27-8-1976	HOECHST AKTIENGESELLSCHAFT of 6230 Frankfurt/Main. 80 Federal Republic of Germany	Electrolytic apparatus for the production of chlorine from aqueous alkali metal chloride.
59.	143426	15-9-1975	MODERN PRODUCTION BJORN ORTEN HEINS A.B. of Akerby skola 755 90 Uprasala, Sweden.	Improvements in or relating to an electrically driven vehicle.
60.	143556	7-7-1975	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan-48232, U.S.A.	Data processing system for executing a plurality of concurrent processes.
61.	143573	24-7-1975	SIEMENS AKTIENGESELLSCHAFT of Berlin & Munich, West Germany.	A drive device for a switch.
62.	143604	12-2-1975	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232, U.S.A.	A charge coupled device stack memory system
63.	143648	20-2-1975	A/S ARDAL OG SUNNDAL VERK of Sorkedalsvein 6, oslo 3, Norway	Device for moulding 'green' blocks of electrodes for the manufacture of anode & cathode carbons for the smelting industries.
64.	143803	18-3-1977	Dr. KARL HERBERTS & CO., of otto Louis Herberts D-5600, Wuppertal 2 Christbusch 25 F.R.G.	A process for the production of highly heat resistant insulating coating electrical Conductors.
65.	143828	22-1-1976	UNITED TECHNOLOGIES of Financial Plaza, Hartford, Connecticut 06101, U.S.A.	A pressurized fuel cell power plant.
66.	143902	30-5-1974	WALTER ALLEN PLUMMER of 3546 Crownridge Drive sherwan oaks, California 91403, U.S.A.	Cable splice assembly.
67.	143919	10-2-1975	RCA CORPORATION of 30 Rockefeller Plaza, New York, N.Y. 10020, U.S.A.	Method of selectively depositing glass on semiconductor devices.
68.	143928	18-9-1975	GOULD INC. of 8550 West Bryn mawr avenue, Chicago Illinois, U.S.A.	Grid for use in lead-acid batteries & lead-acid batteries containing the same.
69.	143949	26-5-1975	SMITHS INDUSTRIES LTD. of cricklewood London NW2 6J, N. England.	Moving-coil electrical instrument.
70.	144932	30-11-1974	ELECTROSCHMELZWERK KEMPTEN GMBH of 8 Munchen 2, Herzog Wilhelmstrasse 16 F.R.G.	A collector apparatus for electrical resistance furnaces.
71.	144033	30-11-1974	Do.	Improvements in or relating to electrical resistance furnaces.
72.	144077	2-6-1975	LICENTIES PATENT VERWALTUNGS g.m.b.H. of 1, Thoder Stern Kai, 6 Frankfurt/Main 70, F.R.G.	Arrangement with a hollow section wave guide.

1	2	3	4	5
73.	144122	25-10-1975	SUMITOMO ELECTRIC INDUSTRIES Ltd. of 15 Kitahamo, 5-chome, Higashi-ku, Osaka, Japan.	Method of manufacture of an antenna reflector having a predetermined curved surface, and the antenna reflector manufactured thereby.
74.	144125	21-4-1976	JOHNA-MANVILLE CORPORATION of 22 Est 40th street, State of New York York, U.S.A.	Primary electrode arrangement for high temperature melting furnace.
75.	144139	2-12-1974	BURROUGHS CORPORATION of Burroughs place, Detroit, Michigan 48232 U.S.A.	Error checking means for use in a data processor.

RENEWAL FEES PAID

121199 121400 121645 121673 121709 121710 126528 126529
 126538 126639 126671 127315 127439 127836 129425 130363
 131044 131215 131222 131312 131405 131552 135365 135492
 135517 135602 135622 135641 135699 135701 135784 135932
 136133 136134 136142 136242 136489 136760 136809 136810
 136811 136822 137120 137153 137259 137260 137807 137819
 138046 138353 138370 138639 138686 138814 138889 139008
 139093 139231 139623 140022 140052 140084 140119 140621
 140934 140953 141126 141302 141324 141354 141529 141727
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 144576 144744 145027 145199 145355 145378 145407 145412
 145535 145898 145944 146000 146077 146313 146351 146362
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 147878 148185 148501 148924 148984 148986 149035 149386
 149415 149438 149439 149597 149648 149737 149743 150317
 150709 150748 150891 150922 150949 151025 151259 151292
 151421 151422 151424 151425 151442 151444 151458 151460
 151552 151564 151567 151604

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class. 1. No. 153564. Mrs. Nirmala Srinivasan and Mrs. Mathuram Ramamurthy of Indian Nationality being partners trading as PS power Controls of 53 (NP) Developed Plots Industrial Estate, Ekkattuthangal, Madras-600 097. "Safety lock in Interlocking Systems". 13th October, 1983.

Class. 1. No. 153565. Mrs. Nirmala Srinivasan and Mrs. Mathuram Ramamurthy of Indian Nationality being partners trading as PS Power Controls of 53 NP Developed Plots, Industrial Estate, Ekkattuthangal, Madras-600 097. "Interlock Key". 13th October, 1983.

Class. 1. No. 153751. Manik Shredomat Manufacturers Private Limited, an Indian Company, having its Registered Office at : 122-124A Jolly Maker Chambers No 2, Nariman Point, Bombay-400 021, Maharashtra, India. "Paper Shredding machine". 5th December, 1983.

Class. 1. No. 153576. Shriram Refrigeration Industries Limited, (A Company incorporated under the Indian Companies Act) 19-Kasturba Gandhi Marg, New Delhi-110001, India. An Indian Company "Tamination". 20th October, 1983.

Class 1. No. 153577. Shriram Refrigeration Industries Limited, (A Company incorporated under the Indian Companies Act) 19-Kasturba Gandhi Marg, New Delhi-11000 "Tamination". 20th October, 1983.

Class. 1. No. 153533. Kirloskar Brothers Limited, an Indian Company of Dewas, Madhya Pradesh 455 001, India. "Housing For Foot Valves". 5th October, 1983.

Class. 1. No. 153532. Kirloskar Brothers Limited, an Indian Company of Dewas, Madhya Pradesh 455 001, India. "Seat for Foot Valves". 5th October, 1983.

Class. 1. No. 153530. Kirloskar Brothers Limited, an Indian Company of Dewas, Madhya Pradesh 455 001, India. "Foot Valves". 5th October, 1983.

Class. 1. No. 154104. Bharat Light Machine, 214, Shakti Nagar, New Delhi-110007, an Indian Proprietor concern. "Hand Sewing Machine". 29th February, 1984.

Class. 3. No. 153885. M/s. Mysore S.A. Agarbatti Works, a registered Indian Partnership firm, registered Indian Partnership firm, registered under Indian Partnership Act, 1932, having their principal place of business at Shop No. 1, 5, Ali Umer Street, Null Bazar, Bombay-400 003, Maharashtra, India. "Airfreshner|Agarbatti". 16th December, 1983.

Class. 3. No. 153531. Kirloskar Brothers Limited, an Indian Company of Dewas, Madhya Pradesh 455 001, India. "Diaphragm for Valves". 5th October, 1983.

Class. 3. No. 153669. Asian Advertisers, 20, Kala Bhavan, 3, Mathew Road, Obera House, Bombay-400004, Maharashtra, an Indian Partnership Firm. "Cassette Bar" Container.. 16th November, 1983.

Class. 3. No. 153478. JG GLASS LTD., of Pimpri, Poona, Maharashtra State, India, an Indian Company. "Bottle". 19th September, 1983.

Class. 12. No. 514193. Hindustan Cocoa Products Limited, Incorporated in India, 19 Bhulabhai Desai Road, Bombay-400 026, State of Maharashtra, India. "Chocolate Bars". 21st March, 1984.

Class. 12 No. 154195. Hindustan Cocos Products Limited, Incorporated in India, 19 Bhulabhai Desai Road, Bombay-400 026, State of Maharashtra, India. "Chocolate Bars". 21st March, 1984.

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